FINAL DRAFT/PROPOSED CAAPP PERMIT
Carmeuse Lime, Inc. – South Chicago Plant
I.D. No.: 031600ADY
Application No.: 95090136
January 24, 2003

217/782-2113

TITLE V - CLEAN AIR ACT PERMIT PROGRAM (CAAPP) PERMIT
and
TITLE I PERMIT[1]

PERMITTEE

Carmeuse Lime, Inc. – South Chicago Plant
Attn: Kent M. Purcell, Environmental, Health, & Safety Manager
3245 East 103rd Street
Chicago, Illinois 60617-5894

Application No.: 95090136 I.D. No.: 031600ADY
Applicant's Designation: Date Received: September 11, 1995
Operation of: Lime Manufacturing Plant
Date Issued: Expiration Date[2]:
Source Location: 3245 East 103rd Street, Chicago, Cook County
Responsible Official: Peter R. Cook, Vice President, Technical Services

This permit is hereby granted to the above-designated Permittee to OPERATE a Lime Manufacturing Plant, pursuant to the above referenced permit application. This permit is subject to the conditions contained herein.

If you have any questions concerning this permit, please contact Michael Haggitt at 217/782-2113.

Donald E. Sutton, P.E.
Manager, Permit Section
Division of Air Pollution Control

DES:MVH:psj

cc: Illinois EPA, FOS, Region 1

1 This permit may contain terms and conditions which address the applicability, and compliance if determined applicable, of Title I of the CAA and regulations promulgated thereunder, including 40 CFR 52.21 – federal PSD and 35 IAC Part 203 – Major Stationary Sources Construction and Modification. Any such terms and conditions are identified within this permit.

2 Except as provided in Condition 8.7 of this permit.

TABLE OF CONTENTS

7.3 Unit: Pulverizer/Separator 1
Control: Pulverizer/Separator System Collector 1
Unit: Hydrated Lime Bag Packing
Control: Filter
Unit: Pebble Lime Bag Packer 1
Control: Pebble Lime Bag Packer Collector 1
Unit: Pebble Lime Bag Packer 2
Control: Pebble Lime Bag Packer Collector 2
Unit: Pulverized Lime Bag Packer
Control: Pulverized Lime Bag Packer Collector
Unit: Lime Grinding System
Control: Lime Grinding Collector
Unit: North Plant Lime Load out System
Control: Load out Collector 1
Control: Load out Collector 2
Unit: Rail Load out System
Control: Rail Load out Collector
Unit: Lime Handling System - North Plant
Control: Conveying and Storage Collector
Unit: Hydrator
Control: Scrubber
Unit: Pulverizer/Separator 3
Control: Pulverizer/Separator System Collector 3

7.4 Unit: Lime Blower Tank
Control: Blower Tank Collector
Unit: Pebble Lime Transfer to Grinding
Control: Lime Transfer Tower Collector
Unit: Lime Grinding, Storage, and Load out
Control: Grinding, Storage, and Load out Collector
Unit: Lime Fines Transfer System
Control: Lime Fines Hydrate Bin Collector 1
Control: Lime Fines Hydrate Bin Collector 2
Unit: Lime Load out System 5
Control: Load out Collector 5
Unit: Lime Handling System - Kiln 5
Control: Storage Collector - Kiln 5

7.5 Unit: Flue Dust Barge Load out System
Control: Barge Load out Collector
Unit: Spar Bin
Control: Spar Bin Vent Collector
Unit: Rail Load out System
Control: Rail Load out Baghouse
Unit: Lime Transfer System 5
Control: Lime Transfer Collector
Unit: Lime Reclaim System - North Plant
Control: Lime Reclaim Hopper Collector

PAGE

1.0 SOURCE IDENTIFICATION

1.1 Source

Carmeuse Lime, Inc.
3245 East 103rd Street
Chicago, Illinois 60617-5894
773/221-9400

I.D. No.: 031600ADY
Standard Industrial Classification: 3274, Lime Manufacturing

1.2 Owner/Parent Company

Carmeuse Lime, Inc.
3245 East 103rd Street
Chicago, Illinois 60617-5894

1.3 Operator

Carmeuse Lime, Inc.
3245 East 103rd Street
Chicago, Illinois 60617-5894

Kent M. Purcell, Environmental, Health, & Safety Manager
708/557-8593

1.4 General Source Description

Carmeuse Lime, Inc. is located at 3245 East 103rd Street in Chicago. This source is a lime manufacturing plant that manufactures lime by the calcination of limestone in rotary kilns.

Lime is manufactured as described in the following two equations:

$CaCO_3$ + heat $\rightarrow$ CO_2 + CaO (high calcium lime)
$CaCO_3$*$MgCO_3$ + heat $\rightarrow$ $2CO_2$ + CaO*MgO (dolomite or dolomitic lime)

(To be classified as limestone, rock must contain at least 50% calcium carbonate. When the rock contains 30 to 45% magnesium carbonate, it is referred to as dolomite, or dolomitic limestone.)

Heat for the process is provided by the combustion of pulverized coal.

The three rotary kilns (3, 4 and 5) are rated at 330, 550, and 1200 tons of lime produced per day.

Following the calcination reaction, hot lime travels out of the discharge end of the kiln and is collected into a contact cooler. A centrifugal fan forces air through the cooler in direct contact and opposite the direction of the lime. The air is then drawn into the kiln by an induced draft fan and forms part of the combustion air. The lime is discharged from the cooler by an electromagnetic type-vibrating feeder to an enclosed belt conveyor, which in turn discharges into a bucket elevator raising the lime to a vibrating screen. The screen separates the lime pebbles from the lime fines. The pebble lime is then conveyed to storage tanks by an enclosed belt conveyor and finally gets loaded into trucks, railcars, or barges. The lime fines are pneumatically transported for further processing.

This source also operates a hydrate plant wherein calcinated lime is slaked (reacted) with water to form hydrated lime. The hydrated lime is pulverized and separated, then bagged for shipping.

Flue dust collected in the baghouses is transferred via screw conveyors to a storage tank and is shipped out of the plant.

The major uses of lime are metallurgical (aluminum, steel, copper, silver, and gold industries), environmental (flue gas desulfurization, water softening, pH control, sewage-sludge destabilization, and hazardous waste treatment), and construction (soil stabilization, asphalt additive, and masonry lime).

Reference: AP-42, Section 11.17, and CAAPP permit application.

2.0 LIST OF ABBREVIATIONS/ACRONYMS USED IN THIS PERMIT

ACMA	Alternative Compliance Market Account
Act	Illinois Environmental Protection Act [415 ILCS 5/1 et seq.]
AP-42	Compilation of Air Pollutant Emission Factors, Volume 1, Stationary Point and Other Sources (and Supplements A through F), USEPA, Office of Air Quality Planning and Standards, Research Triangle Park, NC 27711
ATU	Allotment Trading Unit
BACT	Best Available Control Technology
Btu	British thermal unit
CAA	Clean Air Act [42 U.S.C. Section 7401 et seq.]
CAAPP	Clean Air Act Permit Program
CAM	Compliance Assurance Monitoring
CFR	Code of Federal Regulations
dscf	Dry Standard Cubic Feet
dscm	Dry Standard Cubic Meters
ERMS	Emissions Reduction Market System
HAP	Hazardous Air Pollutant
hr	Hour
IAC	Illinois Administrative Code
I.D. No.	Identification Number of Source, assigned by Illinois EPA
ILCS	Illinois Compiled Statutes
Illinois EPA	Illinois Environmental Protection Agency
kW	Kilowatts
lb	Pound
mmBtu	Million British thermal units
NESHAP	National Emission Standards for Hazardous Air Pollutants
NO_x	Nitrogen Oxides
NSPS	New Source Performance Standards
PM	Particulate Matter
PM_{10}	Particulate matter with an aerodynamic diameter less than or equal to a nominal 10 microns as measured by applicable test or monitoring methods
ppm	parts per million
PSD	Prevention of Significant Deterioration
RMP	Risk Management Plan
SO_2	Sulfur Dioxide
T1	Title I – identifies Title I conditions that have been carried over from an existing permit
T1N	Title I New – identifies Title I conditions that are being established in this permit

T1R	Title I Revised – identifies Title I conditions that have been carried over from an existing permit and subsequently revised in this permit
USEPA	United States Environmental Protection Agency
VOM	Volatile Organic Material

3.0 INSIGNIFICANT ACTIVITIES

3.1 Identification of Insignificant Activities

The following activities at the source constitute insignificant activities as specified in 35 IAC 201.210:

3.1.1 Activities determined by the Illinois EPA to be insignificant activities, pursuant to 35 IAC 201.210(a)(1) and 201.211, as follows:

None

3.1.2 Activities that are insignificant activities based upon maximum emissions, pursuant to 35 IAC 201.210(a)(2) or (a)(3), as follows:

None

3.1.3 Activities that are insignificant activities based upon their type or character, pursuant to 35 IAC 201.210(a)(4) through (18), as follows:

Direct combustion units designed and used for comfort heating purposes and fuel combustion emission units as follows: (A) Units with a rated heat input capacity of less than 2.5 mmBtu/hr that fire only natural gas, propane, or liquefied petroleum gas; (B) Units with a rated heat input capacity of less than 1.0 mmBtu/hr that fire only oil or oil in combination with only natural gas, propane, or liquefied petroleum gas; and (C) Units with a rated heat input capacity of less than 200,000 Btu/hr which never burn refuse, or treated or chemically contaminated wood [35 IAC 201.210(a)(4)].

Storage tanks of organic liquids with a capacity of less than 10,000 gallons and an annual throughput of less than 100,000 gallons per year, provided the storage tank is not used for the storage of gasoline or any material listed as a HAP pursuant to Section 112(b) of the CAA [35 IAC 201.210(a)(10)].

3.1.4 Activities that are considered insignificant activities pursuant to 35 IAC 201.210(b).

3.2 Compliance with Applicable Requirements

Insignificant activities are subject to applicable requirements notwithstanding status as insignificant activities. In particular, in addition to regulations of general applicability, such as 35 IAC 212.301 and 212.123 (Condition 5.2.2), the Permittee shall comply with the following requirements, as applicable:

3.2.1 For each cold cleaning degreaser, the Permittee shall comply with the applicable equipment and operating requirements of 35 IAC 215.182, 218.182, or 219.182.

3.2.2 For each particulate matter process emission unit, the Permittee shall comply with the applicable particulate matter emission limit of 35 IAC 212.321 or 212.322. For example, the particulate matter emissions from a process emission unit shall not exceed 0.55 pounds per hour if the emission unit's process weight rate is 100 pounds per hour or less, pursuant to 35 IAC 266.110.

3.2.3 For each organic material emission unit that uses organic material, e.g., a mixer or printing line, the Permittee shall comply with the applicable VOM emission limit of 35 IAC 215.301, 218.301, or 219.301, which requires that organic material emissions not exceed 8.0 pounds per hour or do not qualify as photochemically reactive material as defined in 35 IAC 211.4690.

3.3 Addition of Insignificant Activities

3.3.1 The Permittee is not required to notify the Illinois EPA of additional insignificant activities present at the source of a type that is identified in Condition 3.1, until the renewal application for this permit is submitted, pursuant to 35 IAC 201.212(a).

3.3.2 The Permittee must notify the Illinois EPA of any proposed addition of a new insignificant activity of a type addressed by 35 IAC 201.210(a) and 201.211 other than those identified in Condition 3.1, pursuant to Section 39.5(12)(b) of the Act.

3.3.3 The Permittee is not required to notify the Illinois EPA of additional insignificant activities present at the source of a type identified in 35 IAC 201.210(b).

4.0 SIGNIFICANT EMISSION UNITS AT THIS SOURCE

Emission Unit	Description	Date Constructed	Emission Control Equipment
01	Rotary Kiln 3	1959	Filter 3
	Rotary Kiln 4	1964	Filter 4
02	Rotary Kiln 5	November 1979	Filter 5
03	Hydrator	1966	Scrubber for Hydrator (AHG200)
	Pulverizor/Separator 1	1925	Pulverizer/Separator 1 System Collector (AHG220)
	Hydrated Lime Bag Packing	1925	Hydrated Lime Bag Packing Equipment Filter
	Pulverizor/Separator 3	1966	Pulverizer/Separator 3 System Collector (AHG210)
	North Lime Load out System	1964	Load Out Collector 1 (ALG250) and Control 08B- Load Out Collector 2 (ALG300)
	Rail Load out System	1964	Rail Load out Collector (AG310)
	Pebble Lime Bag Packer 1	1925	Pebble Lime Bag Packer Collector 1 (ALG140)
	Pebble Lime Bag Packer 2	1925	Pebble Lime Bag Packer Collector 2(ALG150)
	Lime Grinding System	1943	Lime Grinding Collector (ALG160)
	Pulverized Lime Bag Packer	1925	Pulverized Lime Bagger Collector (ALG167)
	Lime Handling System - North Plant	1964	Conveying and Storage Collector (ALG210)
04	Lime Fines Transfer System	November 1979	Lime Fines Hydrate Bin Collector (ALG518) and Lime Fines Hydrate Bin Collector (ALG520)
	Lime Load Out System 5	November 1979	Load Out Collector 5 (ALG510)
	Lime Handling System Kiln 5	November 1979	Storage Collector Kiln 5 (ALG500)
	Lime Blower Tank	March 1976	Blower Tank Collector (ALG410)
	Pebble Lime Transfer to Grinding	March 1977	Lime Transfer Tower Collector (ALG400)

Emission Unit	Description	Date Constructed	Emission Control Equipment
04 (Cont.)	Lime Grinding, Storage and Load Out	March 1977	Grinding, Storage and Load Out Collector (ALG 440)
05	Flue Dust Barge Load Out	April 1989	Barge Load out Collector (AKG575)
	Spar Bin	July 1989	Spar Bin Vent Collector (ALG485)
	Rail Load out	July 1989	Rail Load out Baghouse (ALG350)
	North Reclaim Hopper	June 1996	N. Reclaim Baghouse (ALG180)
	Lime Transfer System 5	March 1990	Lime Transfer Collector (ALG570)
	Lime Reclaim System - North Plant	April 1994	Lime Reclaim Hopper Collector (ALG 180)
	Lime Briquette System	June 1996	Dust Collector (ALG600)
	Load out Rescreen System 5	July 1999	Dust Collector
	Flue Dust Handling System	1972 Modified June 1996	Flue Dust Dry Load Out Collector (AKG167) and Control 24B-Tanks 7 and 8 Collector (AKG171)
	Flue Dust Pug Mill	1969 Modified June 1996	Flue Dust Pug Mill Scrubber (AK464)
	Kiln 5 Flue Dust Tank and Load out System	November 1979 Modified June 1996	Flue Dust Storage and Load Out Collector-Kiln 5 (AKG550)
	Flue Dust Barge Load Out	April 1989	Barge Load out Collector (AKG575)
06	Fugitive PM Emissions	N/A	Fugitive PM Emissions Control

5.0 OVERALL SOURCE CONDITIONS

5.1 Source Description

5.1.1 This permit is issued based on the source requiring a CAAPP permit as a major source of SO_2, NO_x, CO, PM, PM_{10}, and HAP emissions.

5.2 Applicable Regulations

5.2.1 Specific emission units at this source are subject to particular regulations as set forth in Section 7 (Unit-Specific Conditions) of this permit.

5.2.2 In addition, emission units at this source are subject to the following regulations of general applicability:

a. No person shall cause or allow the emission of fugitive particulate matter from any process, including any material handling or storage activity, that is visible by an observer looking generally overhead at a point beyond the property line of the source unless the wind speed is greater than 40.2 kilometers per hour (25 miles per hour), pursuant to 35 IAC 212.301 and 212.314.

b. No person shall cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into the atmosphere from any emission unit other than those emission units subject to the requirements of 35 IAC 212.122, pursuant to 35 IAC 212.123(a), except as allowed by 35 IAC 212.123(b) and 212.124.

5.2.3 Fugitive Particulate Matter Operating Program

a. This source shall be operated under the provisions of an operating program prepared by the Permittee and submitted to the Illinois EPA for its review. Such operating program shall be designed to significantly reduce fugitive particulate matter emissions [35 IAC 212.309(a)].

b. The operating program shall be amended from time to time by the Permittee so that the operating program is current. Such amendments shall be consistent with the requirements set forth by this Condition and shall be submitted to the Illinois EPA [35 IAC 212.312].

c. All conveyor loading operations to storage piles shall utilize spray systems, telescopic chutes, stone ladders, or other equivalent methods, in accordance with the operating program [35 IAC 212.305].

d. All normal traffic pattern access areas surrounding storage piles and all normal traffic pattern roads and parking facilities located at this source shall be paved or treated with water, oils, or chemical dust suppressants. All paved areas shall be cleaned on a regular basis. All areas treated with water, oils, or chemical dust suppressants shall have the treatment applied on a regular basis, as needed, in accordance with the operating program [35 IAC 212.306].

e. All unloading and transporting operations of materials collected by pollution control equipment shall be enclosed or shall utilize spraying, pelletizing, screw conveying, or other equivalent methods [35 IAC 212.307].

f. Crushers, grinding mills, screening operations, bucket elevators, conveyor transfer points, conveyors, bagging operations, storage bins, and fine product truck and railcar loading operations shall be sprayed with water or a surfactant solution, utilize choke-feeding, or be treated by an equivalent method, in accordance with the operating program [35 IAC 212.308].

5.2.4 Ozone Depleting Substances

The Permittee shall comply with the standards for recycling and emissions reduction of ozone depleting substances pursuant to 40 CFR Part 82, Subpart F, except as provided for motor vehicle air conditioners in Subpart B of 40 CFR Part 82:

a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156.

b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.

c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

5.2.5 Risk Management Plan

Should this stationary source, as defined in 40 CFR Section 68.3, become subject to the Accidental Release Prevention regulations in 40 CFR Part 68, then the owner or operator shall submit [40 CFR 68.215(a)(2)(i) and (ii)]:

a. A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR 68.10(a); or

b. A certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan (RMP), as part of the annual compliance certification required by 40 CFR Part 70 or 71.

5.2.6 Future Applicable Regulations

a. Should this stationary source become subject to a regulation under 40 CFR Parts 60, 61, or 63, or 35 IAC after the date issued of this permit, then the owner or operator shall, in accordance with the applicable regulation(s), comply with the applicable requirements by the date(s) specified and shall certify compliance with the applicable requirements of such regulation(s) as part of the annual compliance certification, as required by 40 CFR Part 70 or 71.

b. No later than upon the submittal for renewal of this permit, the owner or operator shall submit, as part of an application, the necessary information to address either the non-applicability of, or demonstrate compliance with all applicable requirements of any potentially applicable regulation which was promulgated after the date issued of this permit.

c. This stationary source will be subject to 40 CFR Part 63, Subpart AAAAA, Lime Manufacturing, when such rule becomes final and effective. The Permittee shall

comply with the applicable requirements of such regulation by the date(s) specified in such regulation and shall certify compliance with the applicable requirements of such regulation as part of the annual compliance certification required by 40 CFR Part 70 beginning in the year that compliance is required under a final and effective rule.

5.2.7 Episode Action Plan

a. If the source is required to have an episode action plan pursuant to 35 IAC 244.142, the Permittee shall maintain at the source and have on file with the Illinois EPA a written episode action plan (plan) for reducing the levels of emissions during yellow alerts, red alerts, and emergencies, consistent with safe operating procedures. The plan shall contain the information specified in 35 IAC 244.144.

b. The Permittee shall immediately implement the appropriate steps described in this plan should an air pollution alert or emergency be declared.

c. If a change occurs at the source, which requires a revision of the plan (e.g., operational change, change in the source contact person), a copy of the revised plan shall be submitted to the Illinois EPA for review within 30 days of the change. Such plans shall be further revised if disapproved by the Illinois EPA.

d. For sources required to have a plan pursuant to 35 IAC 244.142, a copy of the original plan and any subsequent revisions shall be sent to:

i. Illinois EPA, Compliance Section; and

ii. For sources located in Cook County and outside of the city of Chicago: Cook County Department of Environmental Control; or

iii. For sources located within the city of Chicago: Chicago Department of Environmental Control.

5.2.8 PM_{10} Contingency Measure Plan

This stationary source, as defined in 35 IAC 212.700, is required to prepare and submit a contingency measure plan

reflecting the PM_{10} emission reductions as set forth in 35 IAC 212.703. Such plan is incorporated by reference into this permit and shall be implemented in accordance with 35 IAC 212.704. The source shall comply with the applicable requirements of 35 IAC Part 212, Subpart U, incorporated herein by reference.

5.2.9 CAM Plan

This stationary source has a pollutant-specific emissions unit that is subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources. The source must submit a CAM plan for each affected pollutant-specific emissions unit upon application for renewal of the initial CAAPP permit, or upon a significant modification to the CAAPP permit for the construction or modification of a large pollutant-specific emissions unit which has the potential post-control device emissions of the applicable regulated air pollutant that equals or exceeds major source threshold levels.

5.3 Non-Applicability of Regulations of Concern

None

5.4 Source-Wide Operational and Production Limits and Work Practices

In addition to the source-wide requirements in the Standard Permit Conditions in Section 9, the Permittee shall fulfill the following source-wide operational and production limitations and/or work practice requirements:

None

5.5 Source-Wide Emission Limitations

5.5.1 Permitted Emissions for Fees

The annual emissions from the source, not considering insignificant activities as addressed by Section 3.0 of this permit, shall not exceed the following limitations. The overall source emissions shall be determined by adding emissions from all emission units. Compliance with these limits shall be determined on a calendar year basis. These limitations (Condition 5.5.1) are set for the purpose of establishing fees and are not federally enforceable.

Permitted Emissions of Regulated Pollutants

Pollutant	Tons/Year
Volatile Organic Material (VOM)	----
Sulfur Dioxide (SO_2)	2,132
Particulate Matter (PM)	562
Nitrogen Oxides (NO_x)	1,540
HAP, not included in VOM or PM	----
TOTAL	4,234

5.5.2 Emissions of Hazardous Air Pollutants

Source-wide emission limitations for HAPs as listed in Section 112(b) of the CAA are not set. This source is considered to be a major source of HAPs.

5.5.3 Other Source-Wide Emission Limitations

Other source-wide emission limitations are not set for this source pursuant to either the federal rules for Prevention of Significant Deterioration (PSD), 40 CFR 52.21, Illinois EPA rules for Major Stationary Sources Construction and Modification, 35 IAC Part 203, or Section 502(b)(10) of the CAA. However, there may be unit specific emission limitations set forth in Section 7 of this permit pursuant to these rules.

5.6 General Recordkeeping Requirements

5.6.1 Emission Records

The Permittee shall maintain records of the following items for the source to demonstrate compliance with Condition 5.5.1, pursuant to Section 39.5(7)(b) of the Act:

Total annual emissions on a calendar year basis for the emission units covered by Section 7 (Unit Specific Conditions) of this permit.

5.6.2 Records for HAP Emissions

The Permittee shall maintain records of annual HAP emissions (type and amount) from the source.

5.6.3 Retention and Availability of Records

a. All records and logs required by this permit shall be retained for at least five years from the date of

entry (unless a longer retention period is specified by the particular recordkeeping provision herein), shall be kept at a location at the source that is readily accessible to the Illinois EPA or USEPA, and shall be made available for inspection and copying by the Illinois EPA or USEPA upon request.

b. The Permittee shall retrieve and print, on paper during normal source office hours, any records retained in an electronic format (e.g., computer) in response to an Illinois EPA or USEPA request for records during the course of a source inspection.

5.7 General Reporting Requirements

5.7.1 General Source-Wide Reporting Requirements

The Permittee shall promptly notify the Illinois EPA, Compliance Section, of deviations of the source with the permit requirements as follows, pursuant to Section 39.5(7)(f)(ii) of the Act. Reports shall describe the probable cause of such deviations, and any corrective actions or preventive measures taken:

Annual emissions from the source in excess of the emission limits specified in Condition 5.5.1, within 30 days of such an occurrence.

5.7.2 Annual Emissions Report

The annual emissions report required pursuant to Condition 9.7 shall contain emissions information for the previous calendar year.

5.7.3 Annual Reporting of HAP Emissions

The Permittee shall submit an annual report to the Illinois EPA, Compliance Section, on annual HAP emissions (type and amount) from the source. This report shall be submitted with the Annual Emissions Report (Condition 9.7).

5.8 General Operational Flexibility/Anticipated Operating Scenarios

N/A

5.9 General Compliance Procedures

5.9.1 General Procedures for Calculating Emissions

Compliance with the source-wide emission limits specified in Condition 5.5 shall be based on the recordkeeping and reporting requirements of Conditions 5.6 and 5.7, and compliance procedures in Section 7 (Unit Specific Conditions) of this permit.

6.0 EMISSIONS REDUCTION MARKET SYSTEM (ERMS)

6.1 Description of ERMS

The ERMS is a "cap and trade" market system for major stationary sources located in the Chicago ozone nonattainment area. It is designed to reduce VOM emissions from stationary sources to contribute to reasonable further progress toward attainment, as required by Section 182(c) of the CAA.

The ERMS addresses VOM emissions during a seasonal allotment period from May 1 through September 30. Participating sources must hold "allotment trading units" (ATUs) for their actual seasonal VOM emissions. Each year participating sources are issued ATUs based on allotments set in the sources' CAAPP permits. These allotments are established from historical VOM emissions or "baseline emissions" lowered to provide the emissions reductions from stationary sources required for reasonable further progress.

By December 31 of each year, the end of the reconciliation period following the seasonal allotment period, each source should have sufficient ATUs in its transaction account to cover its actual VOM emissions during the preceding season. A transaction account's balance as of December 31 will include any valid ATU transfer agreements entered into as of December 31 of the given year, provided such agreements are promptly submitted to the Illinois EPA for entry into the transaction account database. The Illinois EPA will then retire ATUs in sources' transaction accounts in amounts equivalent to their seasonal emissions. When a source does not appear to have sufficient ATUs in its transaction account, the Illinois EPA will issue a notice to the source to begin the process for Emissions Excursion Compensation.

In addition to receiving ATUs pursuant to their allotments, participating sources may also obtain ATUs from the market, including ATUs bought from other participating sources and general participants in the ERMS that hold ATUs (35 IAC 205.630) and ATUs issued by the Illinois EPA as a consequence of VOM emissions reductions from an Emissions Reduction Generator or an Intersector Transaction (35 IAC 205.500 and 35 IAC 205.510). During the reconciliation period, sources may also buy ATUs from a secondary reserve of ATUs managed by the Illinois EPA, the "Alternative Compliance Market Account" (ACMA) (35 IAC 205.710). Sources may also transfer or sell the ATUs that they hold to other sources or participants (35 IAC 205.630).

6.2 Applicability

This permit is issued based on this source not being a participating source in the Emissions Reduction Market System (ERMS), 35 IAC Part 205, pursuant to 35 IAC 205.200. This is based on the source's actual VOM emissions during the seasonal allotment period from May 1 through September 30 of each year being less than 10 tons and the source's baseline emissions also being less than 10 tons.

6.3 Recordkeeping and Reporting

a. The Permittee shall maintain the following records to allow the confirmation of actual VOM emissions during the seasonal allotment period:

i. Records of operating data and other information for each individual emission unit or group of related emission units at the source, as specified in Sections 5 and 7 of this permit, as appropriate, to determine actual VOM emissions during the seasonal allotment period;

ii. Records of the VOM emissions, in tons, during the seasonal allotment period, with supporting calculations, for each individual emission unit or group of related emission units at the source, determined in accordance with the procedures specified in Sections 5 and 7 of this permit; and

iii. Total VOM emissions from the source, in tons, during each seasonal allotment period, which shall be compiled by November 30 of each year.

b. In the event that the source's VOM emissions during the seasonal allotment period equal or exceed 10 tons, the source shall become a participating source in the ERMS and beginning with the following seasonal allotment period, shall comply with 35 IAC Part 205, by holding allotment trading units (ATUs) for its VOM emissions during each seasonal allotment period, unless the source obtains exemption from the ERMS by operating with seasonal VOM emissions of no more than 15 tons pursuant to a limitation applied for and established in its CAAPP permit.

7.0 UNIT SPECIFIC CONDITIONS

7.1 Unit 01: Rotary Kilns 3 and 4
Control: Filters 3 and 4

7.1.1 Description

Rotary kilns 3 (9' by 210') and 4 (10.5' by 286') are capable of manufacturing 330 and 550 tons of lime per day.

7.1.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit	Description	Emission Control Equipment
01	Rotary Kiln 3	Filter 3
	Rotary Kiln 4	Filter 4

7.1.3 Applicability Provisions and Applicable Regulations

a. The "affected kilns" for the purpose of these unit-specific conditions, are Rotary Kilns 3 and 4.

b. The affected kilns are subject to the opacity emission limits identified in Condition 5.2.2(b).

c. The affected kilns are subject to 35 IAC 212.322, Process Emission Units For Which Construction or Modification Commenced Prior to April 14, 1972:

No person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any process unit for which construction or modification commenced prior to April 14, 1972, which, either alone or in combination with the emission of particulate matter from all other similar process emission units at a source or premises, exceeds the allowable emission rates specified in subsection (c) of 35 IAC 212.322 (see also Attachment 10.2) [35 IAC 212.322(a)].

d. The affected kilns are subject to 35 IAC 212.425(b)(5), Emission Units in Certain Areas:

No person shall cause or allow the emission of PM_{10}, other than that of fugitive particulate matter, into the atmosphere to exceed 45.8 mg/scm (0.02 gr/scf) during any one hour period for kilns in the lime manufacturing industry [35 IAC 212.425(b)(5)].

7.1.4 Non-Applicability of Regulations of Concern

a. This permit is issued based on the affected kilns not being subject to the NSPS for Lime Manufacturing Plants, 40 CFR Part 60, Subpart HH, because the affected kilns commenced construction prior to May 3, 1977.

b. This permit is issued based on the affected kilns not being subject to the emission limitation of 35 IAC 212.324(b), because the affected kilns are subject to a specific emissions standard or limitation contained in 35 IAC Part 212, Subpart Q, Stone, Clay, Glass, and Concrete Manufacturing, pursuant to 35 IAC 212.324(a)(3)(B).

c. This permit is issued based on the affected kilns not being subject to the emission limitations of 35 IAC Part 214, Subpart B, Subpart C, Subpart D, Subpart E, Subpart F, 214.301, and 214.304, because the affected kilns are not subject to any limitations for sulfur dioxide emissions, pursuant to 35 IAC 214.402.

7.1.5 Control and Operating Requirements and Work Practices

a. The affected kilns are subject to the work practice requirements identified in Condition 5.2.3(e).

b. The filters shall be operated at all times when the affected kilns are in operation.

7.1.6 Emission Limitations

There are no specific emission limitations for this unit, however, there are source wide emission limitations in Condition 5.5 that include these units.

7.1.7 Testing Requirements

a. All coal charged to the affected kilns shall be analyzed on a shipment basis for sulfur content (percent by weight).

7.1.8 Inspection and Monitoring Requirements

a. The owner or operator shall maintain and repair all filters in a manner that assures that the emission limits and standards in Condition 7.1.3 shall be met at all times. Proper maintenance shall include the

following minimum requirements [35 IAC 212.324(f) and 212.425(d)]:

i. Visual inspections of filters [35 IAC 212.324(f)(1) and 212.425(d)];

ii. Maintenance of an adequate inventory of spare parts [35 IAC 212.324(f)(2) and 212.425(d)]; and

iii. Expeditious repairs, unless the affected kiln is shutdown [35 IAC 212.324(f)(3) and 212.425(d)].

b. The opacity (Method 9) and the pressure drop across each filter of each affected kiln shall be monitored and recorded on a daily basis.

7.1.9 Recordkeeping Requirements

In addition to the records required by Condition 5.6, the Permittee shall maintain records of the following items for each affected kiln to demonstrate compliance with Conditions 5.5.1, 7.1.3, 7.1.5, 7.1.7, and 7.1.8, pursuant to Section 39.5(7)(b) of the Act:

a. Written records of inventory and documentation of inspections, maintenance, and repairs of all filters shall be kept in accordance with 35 IAC 212.324(f) (Condition 7.1.8(a)) [35 IAC 212.324(g)(1) and 212.425(d)].

b. The owner or operator shall document any period during which any affected kiln was in operation when the filter was not in operation or was malfunctioning so as to cause an emissions level in excess of the emissions limitation. These records shall include documentation of causes for a filter not operating or such malfunction and shall state what corrective actions were taken and what repairs were made [35 IAC 212.324(g)(2) and 212.425(d)].

c. A written record of the inventory of all spare parts not readily available from local suppliers shall be kept and updated [35 IAC 212.324(g)(3) and 212.425(d)].

d. Limestone and coal fed to each affected kiln (tons/hr).

e. Lime produced in each affected kiln (ton/month and ton/year).

f. Filter pressure drops.

g. The monthly and annual aggregate NO_x, SO_2, CO, PM, and PM_{10} emissions, based on lime produced and the applicable emission factors from Condition 7.1.12, with supporting calculations (ton/month and ton/year).

7.1.10 Reporting Requirements

The Permittee shall promptly notify the Illinois EPA, Compliance Section, of deviations of an affected kiln with the permit requirements as follows, pursuant to Section 39.5(7)(f)(ii) of the Act. Reports shall describe the probable cause of such deviations, and any corrective actions or preventive measures taken:

a. Copies of all records required by 35 IAC 212.324(g) (Conditions 7.1.9(a), (b), and (c)) shall be submitted to the Illinois EPA within ten (10) working days after a written request by the Illinois EPA [35 IAC 212.324(g)(4) and 212.425(d)].

b. Upon written request by the Illinois EPA, a report shall be submitted to the Illinois EPA for any period specified in the request stating the following: the dates during which any affected kiln was in operation when the filter was not in operation or was not operating properly, documentation of causes for a filter not operating or not operating properly, and a statement of what corrective actions were taken and what repairs were made [35 IAC 212.324(g)(6) and 212.425(d)].

7.1.11 Operational Flexibility/Anticipated Operating Scenarios

N/A

7.1.12 Compliance Procedures

Compliance with the emission limits shall be based on the recordkeeping requirements in Condition 7.1.9 and the emission factors from AP-42, Section 11.17, Lime Manufacturing, and the formula listed below:

Pollutant	Emission Factor (lb/ton Lime Produced)
NO_x	3.1
SO_2	1.7
CO	1.5
PM	0.28
PM_{10}	0.15

Emissions (ton) = (Lime Produced, ton) x (the applicable Emission Factor, lb/ton) x (ton/2000 lb)

7.2 Unit 02: Rotary Kiln 5
Control: Filter 5

7.2.1 Description

Rotary kiln 5 (15' by 485') is capable of manufacturing 1200 tons of lime per day.

7.2.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit	Description	Emission Control Equipment
02	Rotary Kiln 5	Filter 5

7.2.3 Applicability Provisions and Applicable Regulations

a. The "affected rotary lime kiln" for the purpose of these unit-specific conditions, is Rotary Kiln 5.

b. The affected rotary lime kiln is subject to the NSPS for Lime Manufacturing Plants, 40 CFR Part 60, Subparts A and HH, because the affected rotary lime kiln is used in the manufacture of lime and commenced construction after May 3, 1977. The Illinois EPA is administering NSPS in Illinois on behalf of the USEPA under a delegation agreement.

c. No owner or operator shall cause to be discharged into the atmosphere from any affected rotary lime kiln any gases which [40 CFR 60.342(a)]:

i. Contain PM in excess of 0.30 lb/ton of limestone feed. This emission limitation was established in Permit 81070003, is more stringent than the emission limitation of 40 CFR 60.342(a)(1), and represents the application of BACT as required by Section 165 of the CAA.

ii. Exhibit greater than 10 percent opacity when exiting from a filter. This emission limitation was established in Permit 81070003, is more stringent than the emission limitations of Condition 5.2.2(b) and 40 CFR 60.342(a)(2), and represents the application of BACT as required by Section 165 of the CAA.

d. The affected rotary lime kiln is subject to 35 IAC 212.321, Process Emission Units For Which

Construction or Modification Commenced On or After April 14, 1972:

No person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any new process emission unit which, either alone or in combination with the emission of particulate matter from all other similar process emission units for which construction or modification commenced on or after April 14, 1972, at a source or premises, exceeds the allowable emission rates specified in subsection (c) of 35 IAC 212.321 (see also Attachment 10.1) [35 IAC 212.321(a)].

e. The affected rotary lime kiln is subject to 35 IAC 212.425(b)(5), Emission Units in Certain Areas:

No person shall cause or allow the emission of PM_{10}, other than that of fugitive particulate matter, into the atmosphere to exceed 45.8 mg/scm (0.02 gr/scf) during any one hour period for kilns in the lime manufacturing industry [35 IAC 212.425(b)(5)].

f. Emissions of SO_2 from the affected rotary lime kiln shall not exceed 2.08 lb/ton of process weight rate. The process weight rate is defined as the weight of the total solid materials (e.g., limestone, coal, and coke) input into the lime production process. This emission limitation was established in Permit 81070003 and represents the application of BACT as required by Section 165 of the CAA.

g. The Permittee shall comply with all terms set forth in the USEPA, Region V, Consent Order No. EPA-5-90-113(a)-37.

7.2.4 Non-Applicability of Regulations of Concern

a. This permit is issued based on the affected rotary lime kiln not being subject to the emission limitation of 35 IAC 212.324(b), because the affected rotary lime kiln is subject to a specific emissions standard or limitation contained in 35 IAC Part 212, Subpart Q, Stone, Clay, Glass, and Concrete Manufacturing, pursuant to 35 IAC 212.324(a)(3)(B).

b. This permit is issued based on the affected rotary lime kiln not being subject to the emission limitations of 35 IAC Part 214, Subpart B, Subpart C,

Subpart D, Subpart E, Subpart F, 214.301, and 214.304, because the affected rotary lime kiln is not subject to any limitations for sulfur dioxide emissions, pursuant to 35 IAC 214.402.

7.2.5 Control and Operating Requirements and Work Practices

a. The affected rotary lime kiln is subject to the work practice requirements identified in Condition 5.2.3(e).

b. The filter shall be operated at all times when the affected rotary lime kiln is in operation.

c. The process weight rate shall not exceed 317,680 lb/hr (158.84 ton/hr). The process weight rate is defined as the weight of the total solid materials (e.g., limestone, coal, and coke) input into the lime production process.

d. The sulfur content of the coal shall not exceed 1.78 percent by weight, as received.

e. Operation of the affected rotary lime kiln during periods of excess emissions is not allowed.

f. The Permittee shall not alter any stack parameters, operating, or design characteristics identified in its application without the prior written authorization.

7.2.6 Emission Limitations

In addition to Condition 5.2.2, 7.2.3 and the source wide emission limitations in Condition 5.5, the affected rotary lime kiln is subject to the following:

a. The affected lime kiln shall not exceed 10 percent opacity when exiting from a filter [T1].

This emission limitation was established in Permit 81070003, is more stringent than the emission limitations of Condition 5.2.2(b) and 40 CFR 60.342(a)(2), and represents the application of BACT as required by Section 165 of the CAA [T1].

Compliance with annual limits shall be determined on a monthly basis from the sum of the data for the

current month plus the preceding 11 months (running 12 month total) [T1].

b. Emissions of SO_2 from the affected rotary lime kiln shall not exceed 2.08 lb/ton of process weight rate. The process weight rate is defined as the weight of the total solid materials (e.g., limestone, coal, and coke) input into the lime production process. [T1].

This emission limitation was established in Permit 81070003 and represents the application of BACT as required by Section 165 of the CAA [T1].

Compliance with annual limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months (running 12 month total) [T1].

7.2.7 Testing Requirements

a. All coal charged to the affected rotary lime kiln shall be analyzed on a shipment basis for sulfur content (percent by weight).

7.2.8 Inspection and Monitoring Requirements

a. The owner or operator shall install, calibrate, maintain, and operate a continuous opacity monitoring system to monitor and record the opacity of a representative portion of the gases discharged into the atmosphere from any affected rotary lime kiln. The span of this system shall be set at 40 percent opacity [40 CFR 60.343(a)].

b. The owner or operator of any lime manufacturing plant shall install, calibrate, maintain, and operate a device for measuring the mass rate of stone feed to any affected rotary lime kiln. The measuring device used must be accurate to within ±5 percent of the mass rate over its operating range [40 CFR 60.343(d)].

c. The owner or operator shall maintain and repair the filter in a manner that assures that the emission limits and standards in Condition 7.2.3 shall be met at all times. Proper maintenance shall include the following minimum requirements [35 IAC 212.324(f) and 212.425(d)]:

i. Visual inspections of filter [35 IAC 212.324(f)(1) and 212.425(d)];

ii. Maintenance of an adequate inventory of spare parts [35 IAC 212.324(f)(2) and 212.425(d)]; and

iii. Expeditious repairs, unless the affected rotary lime kiln is shutdown [35 IAC 212.324(f)(3) and 212.425(d)].

d. The pressure drop across the filter of the affected rotary lime kiln shall be monitored and recorded on a daily basis.

7.2.9 Recordkeeping Requirements

In addition to the records required by Condition 5.6, the Permittee shall maintain records of the following items for the affected rotary lime kiln to demonstrate compliance with Conditions 5.5.1, 7.2.3, 7.2.5, 7.2.7, and 7.2.8, pursuant to Section 39.5(7)(b) of the Act:

a. Limestone and coal feed (tons/hr) hours per year in each kiln and lime production rate (ton/hr).

b. Baghouse pressures and pressure drops, kiln temperatures, kiln feed rate per hour and air flow.

Recordkeeping pursuant to 35 IAC 212.324(g) is as follows:

c. Written records of inventory and documentation of inspections, maintenance, and repairs of all air pollution control equipment. [35 IAC 212.324(g)(1)]

d. The owner or operator shall document any period during which any process emission unit was in operation when the air pollution control equipment was not in operation or was malfunctioning so as to cause an emissions level in excess of the emission limitation. These records shall include documentation of causes for pollution control equipment not operating or such malfunction and shall state what corrective actions were taken and what repairs were made. [35 IAC 212.324(g)(2)]

e. A written record of the inventory of all spare parts not readily available from local suppliers shall be kept and updated. [35 IAC 212.324(g)(3)]

f. Copies of all records required by 35 IAC 212.324 shall be submitted to the Agency within ten (10) working days after a written request by the Agency. [35 IAC 212.324(g)(4)]

g. The records required under 35 IAC 212.324(g) shall be kept and maintained for at least three (3) years and shall be available for inspection and copying by Agency representatives during working hours. [35 IAC 212.324(g)(5)]

h. Upon written request by the Agency, a report shall be submitted to the Agency for any period specified in the request stating the following: the dates during which any process emission unit was in operation when the air pollution control equipment was not in operation or was not operating properly, documentation of causes for pollution control equipment not operating or not operating properly, and a statement of what corrective actions were taken and what repairs were made. [35 IAC 212.324(g)(6)]

Affected kiln 5 is subject to the recordkeeping requirements of 40 CFR 60.7(b) and (f) which state:

i. Any owner or operator subject to the provisions of 40 CFR 60.7 shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. [40 CFR 60.7(b)]

j. Any owner or operator subject to the provisions of 40 CFR 60.7 shall maintain a file of all measurements, including continuous monitoring system, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by 40 CFR 60.7 recorded in a permanent form suitable for inspection. The file shall be retained for at least two years following the date of such measurements, maintenance, reports, and records. [40 CFR 60.7(f)]

7.2.10 Reporting Requirements

The Permittee shall promptly notify the Illinois EPA, Compliance Section, of deviations of the affected kiln with the permit requirements as follows, pursuant to Section 39.5(7)(f)(ii) of the Act. Reports shall describe the probable cause of such deviations, and any corrective actions or preventive measures taken:

a. For the purpose of reports required under 40 CFR 60.7(c), periods of excess emissions that shall be reported are defined as all 6-minute periods during which the average opacity of the visible emissions from any lime kiln subject to 40 CFR 60.343(a) is greater than 15 percent *(10% for Carmeuse, see 7.2.4)* or, in the case of wet scrubbers, any period in which the scrubber pressure drop is greater than 30 percent below the rate established during the performance test. If visible emission observations are made according to 40 CFR 60.343(b), reports of excess emissions shall be submitted semiannually. [40 CFR 60.343(e)]

b. Reporting of Malfunctions and Breakdowns for affected units.

The Permittee shall provide the following notification and reports to the Illinois EPA, Compliance Section and Regional Field Office, pursuant to 35 IAC 201.263, concerning continued operation of the affected kilns subject to Condition 7.1.3 during malfunction or breakdown of the control features of the affected kilns.

i. The Permittee shall notify the Illinois EPA's regional office by telephone as soon as possible during normal working hours, but no later than three (3) days, upon the occurrence of noncompliance due to malfunction or breakdown.

ii. Upon achievement of compliance, the Permittee shall give a written follow-up notice to the Illinois EPA, Compliance Section and Regional Field Office, providing a detailed explanation of the event, an explanation why continued operation of the kilns was necessary, the length of time during which operation continued under such conditions, the measures

taken by the Permittee to minimize and correct deficiencies with chronology, and when the repairs were completed or when the affected kiln was taken out of service.

iii. If compliance is not achieved within 5 working days of the occurrence, the Permittee shall submit interim status reports to the Illinois EPA, Compliance Section and Regional Field Office, within 5 days of the occurrence and every 14 days thereafter, until compliance is achieved. These interim reports shall provide a brief explanation of the nature of the malfunction or breakdown, corrective actions accomplished to date, actions anticipated to occur with schedule, and the expected date on which repairs will be complete or the affected kiln will be taken out of service.

c. Affected kiln 5 is subject to the reporting requirements of 40 CFR 60.343(e) which states:

For the purpose of reports required under 40 CFR 60.7(c), periods of excess emissions that shall be reported are defined as all 6-minute periods during which the average opacity of the visible emissions from any lime kiln subject to 40 CFR 60.343(a) is greater than 15% (*10% for Carmeuse).* [40 CFR 60.343(e)]

d. Affected kiln 5 is subject to the reporting requirements of 40 CFR 60.7(c), (d) and (e) which states:

Each owner or operator required to install a continuous monitoring system (CMS) or monitoring device shall submit an excess emissions and monitoring systems performance report (excess emissions are defined in applicable subparts) and/or a summary report form (see 40 CFR 60.7(d)) to the Administrator semiannually, except when: more frequent reporting is specifically required by an applicable subpart; or the CMS data are to be used directly for compliance determination, in which case quarterly reports shall be submitted; or the Administrator, on a case-by-case basis, determines that more frequent reporting is necessary to accurately assess the compliance status of the source. All reports shall be postmarked by the 30th

day following the end of each calendar half (or quarter, as appropriate). Written reports of excess emissions shall include the following information: [40 CFR 60.7(c)]

i. The magnitude of excess emissions computed in accordance with 40 CFR 60.13(h), any conversion factor(s) used, and the date and time of commencement and completion of each time period of excess emissions. The process operating time during the reporting period. [40 CFR 60.7(c)(1)]

ii. Specific identification of each period of excess emissions that occurs during startups, shutdowns, and malfunctions of the affected facility. The nature and cause of any malfunction (if known), the corrective action taken or preventative measures adopted. [40 CFR 60.7(c)(2)]

iii. The date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks and the nature of the system repairs or adjustments. [40 CFR 60.7(c)(3)]

iv. When no excess emissions have occurred or the continuous monitoring system(s) have not been inoperative, repaired, or adjusted, such information shall be stated in the report. [40 CFR 60.7(c)(4)]

e. The summary report form shall contain the information and be in the format shown in figure 1 unless otherwise specified by the Administrator. One summary report form shall be submitted for each pollutant monitored at each affected facility. [40 CFR 60.7(d)]

i. If the total duration of excess emissions for the reporting period is less than 1 percent of the total operating time for the reporting period and CMS downtime for the reporting period is less than 5 percent of the total operating time for the reporting period, only the summary report form shall be submitted and the excess emission report described in 40 CFR

60.7(c) need not be submitted unless requested by the Administrator. [40 CFR 60.7(d)(1)]

ii. If the total duration of excess emissions for the reporting period is 1 percent or greater of the total operating time for the reporting period or the total CMS downtime for the reporting period is 5 percent or greater of the total operating time for the reporting period, the summary report form and the excess emission report described in 40 CFR 60.7(c) shall both be submitted. [40 CFR 60.7(d)(2)]

iii. Notwithstanding the frequency of reporting requirements specified in 40 CFR 60.7(c), an owner or operator who is required by an applicable subpart to submit excess emissions and monitoring systems performance reports (and summary reports) on a quarterly (or more frequent) basis may reduce the frequency of reporting for that standard to semiannual if the following conditions are met: [40 CFR 60.7(e)(1)]

A. For 1 full year (e.g., 4 quarterly or 12 monthly reporting periods) the affected facility's excess emissions and monitoring systems reports submitted to comply with a standard under 40 CFR 60.7 continually demonstrate that the facility is in compliance with the applicable standard; [40 CFR 60.7(e)(1)(i)]

B. The owner or operator continues to comply with all recordkeeping and monitoring requirements specified in 40 CFR 60.7 and the applicable standard; and [40 CFR 60.7(e)(1)(ii)]

C. The Administrator does not object to a reduced frequency of reporting for the affected facility, as provided in 40 CFR 60.7(e)(2). [40 CFR 60.7(e)(1)(iii)]

iv. The frequency of reporting of excess emissions and monitoring systems performance (and summary) reports may be reduced only after the owner or operator notifies the Administrator in writing of his or her intention to make

such a change and the Administrator does not object to the intended change. In deciding whether to approve a reduced frequency of reporting, the Administrator may review information concerning the source's entire previous performance history during the required recordkeeping period prior to the intended change, including performance test results, monitoring data, and evaluations of an owner or operator's conformance with operation and maintenance requirements. Such information may be used by the Administrator to make a judgment about the source's potential for noncompliance in the future. If the Administrator disapproves the owner or operator's request to reduce the frequency of reporting, the Administrator will notify the owner or operator in writing within 45 days after receiving notice of the owner or operator's intention. The notification from the Administrator to the owner or operator will specify the grounds on which the disapproval is based. In the absence of a notice of disapproval within 45 days, approval is automatically granted. [40 CFR 60.7(e)(2)]

v. As soon as monitoring data indicate that the affected facility is not in compliance with any emission limitation or operating parameter specified in the applicable standard, the frequency of reporting shall revert to the frequency specified in the applicable standard, and the owner or operator shall submit an excess emissions and monitoring systems performance report (and summary report, if required) at the next appropriate reporting period following the noncomplying event. After demonstrating compliance with the applicable standard for another full year, the owner or operator may again request approval from the Administrator to reduce the frequency of reporting for that standard as provided for in 40 CFR 60.7(e)(1) and 40 CFR 60.7(e)(2). [40 CFR 60.7(e)(3)]

7.2.11 Operational Flexibility/Anticipated Operating Scenarios

N/A

7.2.12 Compliance Procedures

a. Compliance with Condition 7.2.6 for affected kilns 5 shall be based on the recordkeeping requirements in Condition 7.1.9 and the emission factors and formulas listed below.

Emission factors are taken from AP-42, Section 11.17.

PM: 0.28 LB/TON OF LIME PRODUCED.
PM_{10}: 0.15 LB/TON OF LIME PRODUCED.

PM EMISSIONS/DAY = (0.28)*(TONS LIME PRODUCED/DAY)
PM_{10} EMISSIONS/DAY = (0.15)*(TONS LIME PRODUCED/DAY)
PM EMISSIONS/YEAR = (0.28)*(TONS LIME PRODUCED/YEAR)
PM_{10} EMISSIONS/YEAR = (0.15)*(TONS LIME PRODUCED/YEAR)

b. Compliance with Section 7.2.8 shall be based on the following pursuant to 40 CFR 60.344: Test methods and procedures.

i. In conducting the performance tests required in 40 CFR 60.8, the owner or operator shall use as reference methods and procedures the test methods in appendix A of 40 CFR 60.344 or other methods and procedures as specified 40 CFR 60.344, except as provided in 40 CFR 60.8(b). [40 CFR 60.344(a)]

ii. The owner or operator shall determine compliance with the particulate matter standards in 40 CFR 60.342(a) as follows: [40 CFR 60.344(b)]

A. The emission rate (E) of particulate matter shall be computed for each run using the following equation:

$E=(c_s\ Q_{sd})/PK)$

where:

E = emission rate of particulate matter, kg/Mg (1b/ton) of stone feed.

c_s = concentration of particulate matter, g/dscm (g/dscf).

Q_{sd} = volumetric flow rate of effluent gas, dscm/hr (dscf/hr).

P = stone feed rate, Mg/hr (ton/hr).

K = conversion factor, 1000 g/kg (453.6 g/lb).

[40 CFR 60.344(a)(1)]

B. Method 5 shall be used at negative-pressure fabric filters and other types of control devices and Method 5D shall be used as positive-pressure fabric filters to determine the particulate matter concentration (c_s) and the volumetric flow rate (Q_{sd}) of the effluent gas. The sampling time and sample volume for each run shall be at least 60 minutes and 0.90 dscm (31.8 dscf). [40 CFR 60.344(a)(2)]

C. The monitoring device of 40 CFR 60.343(d) shall be used to determine the stone feed rate (P) for each run. [40 CFR 60.344(a)(3)]

D. Method 9 and the procedures in 40 CFR 60.11 shall be used to determine opacity. [40 CFR 60.344(a)(4)]

c. During the particulate matter run, the owner or operator shall use the monitoring devices in 40 CFR 60.343(c)(1) and (2) to determine the average pressure loss of the gas stream through the scrubber and the average scrubbing liquid supply pressure. [40 CFR 60.344(c)]

7.3 Unit 03: "Existing" Material Handling Units
Control: Various Dust Collectors/Baghouses

7.3.1 Description

Emission unit 03 consists of various material handling units (baggers, load out systems, bag packers, material handling, transporting systems, conveyors, etc.) which as a group, were installed prior to April 12,1972.

7.3.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit	Description	Emission Control Equipment
03	Hydrator	Scrubber for Hydrator (AHG200)
	Pulverizor/Separator 1	Pulverizer/Separator 1 System Collector (AHG220)
	Hydrated Lime Bag Packing	Hydrated Lime Bag Packing Equipment Filter
	Pulverizor/Separator 3	Pulverizer/Separator 3 System Collector (AHG210)
	North Lime Load out System	Load Out Collector 1 (ALG250) and Control 08B- Load Out Collector 2 (ALG300)
	Rail Load out System	Rail Load out Collector (AG310)
	Pebble Lime Bag Packer 1	Pebble Lime Bag Packer Collector 1 (ALG140)
	Pebble Lime Bag Packer 2	Pebble Lime Bag Packer Collector 2(ALG150)
	Lime Grinding System	Lime Grinding Collector (ALG160)
	Pulverized Lime Bag Packer	Pulverized Lime Bagger Collector (ALG167)
	Lime Handling System - North Plant	Conveying and Storage Collector (ALG210)

7.3.3 Applicability Provisions and Applicable Regulations

a. The "affected existing material handling units" for the purpose of these unit-specific conditions are the "existing" material handling units identified in Condition 7.3.2.

b. The "affected "existing" material handling units" are subject to the emission limits identified in Condition 5.2.2.

c. The affected existing material handling units are subject to 35 IAC 212.322, which states:

No person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any process unit for which construction or modification commenced prior to April 14, 1972, which, either alone or in combination with the emission of particulate matter from all other similar process emission units at a source or premises, exceeds the allowable emission rates specified in subsection (c) of 35 IAC 212.322 (see also Attachment 10.2) [35 IAC 212.322(a)].

d. The affected existing material handling units are subject to 35 IAC 212.425(b)(6) which states:

No person shall cause or allow the emission of PM_{10}, other than that of fugitive particulate matter, into the atmosphere to exceed the following limits during any one hour period: 22.9 mg/scm (0.01 gr/scf) for all other process emission units in the lime manufacturing industry. [35 IAC 212.425(b)(6)]

7.3.4 Non-Applicability of Regulations of Concern

a. This permit is issued based on the affected existing material handling units not being subject to the New Source Performance Standards (NSPS) for Non-Metallic Mineral Processing, 40 CFR 60 Subpart OOO because the affected existing material handling units were installed prior to August 31, 1983.

b. This permit is issued based on the affected existing material handling units not being subject to 35 IAC 212.321 because the affected existing material handling units were installed prior to April 14, 1972.

c. This permit is issued based on the affected existing material handling units not being subject to 35 IAC 212.324(b), General Emission Limit for PM_{10} because the affected existing material handling units are subject to the more stringent 35 IAC 425(b)(6).

7.3.5 Control Requirements

a. Control systems for existing material handling units must perform so as to achieve compliance with the limits given in Condition 7.3.3.

7.3.6 Emission Limitations

There are no specific emission limitations for these units, however, there are source wide emission limitations in Condition 5.5 that include these units.

7.3.7 Operating Requirements

None

7.3.8 Inspection Requirements

The affected existing material handling units are subject to 35 IAC 212.324(f), which states: Proper maintenance shall include the following minimum requirements:

a. Visual inspections of air pollution control equipment;

b. Maintenance of an adequate inventory of spare parts;

c. Expeditions repairs, unless the emission unit is shutdown.

7.3.9 Recordkeeping Requirements

In addition to the records required by Condition 5.6,the Permittee shall maintain records of the following items for each affected existing material handling unit to demonstrate compliance 5.5.1, pursuant to Section 39.5(7)(b) of the Act.

a. The Permittee shall maintain records of the following items for the system to demonstrate compliance:

i. Throughput of product rate (process weight rate) for the systems in tons/month and tons/year.

ii. The aggregate monthly and yearly particulate matter emissions from the system, based on the use of applicable emission factors based on the operating schedule and the typical hourly emission rate, with supporting calculations.

b. Pursuant to 35 IAC 212.324(g) the Permittee shall keep:

i. Written records of inventory and documentation of inspections, maintenance, and repairs of all air pollution control equipment.

ii. The owner or operator shall document any period during which any process emission unit was in operation when the air pollution control equipment was not in operation or was malfunctioning so as to cause an emissions level in excess of the emission limitation. These records shall include documentation of causes for pollution control equipment not operating or such malfunction and shall state what corrective actions were taken and what repairs were made.

iii. A written record of the inventory of all spare parts not readily available from local suppliers shall be kept and updated.

iv. Copies of all records required by Condition 7.3.9 shall be submitted to the Agency within ten (10) working days after a written request by the Agency.

v. The records required under Condition 7.3.9 shall be kept and maintained for at least three (3) years and shall be available for inspection and copying by Agency representatives during working hours. [35 IAC 212.324(g)]

7.3.10 Reporting Requirements

The Permittee shall promptly notify the Illinois EPA, Compliance Section, of deviations of the affected existing

material handling units, with the permit requirements as follows, pursuant to Section 39.5(7)(f)(ii) of the Act. Reports shall describe the probable cause of such deviations, and any corrective actions or preventive measures taken:

a. Upon written request by the Agency, a report shall be submitted to the Agency for any period specified in the request stating the following: the dates during which any process emission unit was in operation when the air pollution control equipment was not in operation or was not operating properly, documentation of causes for pollution control equipment not operating or not operating properly, and a statement of what corrective actions were taken and what repairs were made. [35 IAC 212.324(g)(6)]

7.3.11 Operational Flexibility/Anticipated Operating Scenarios

N/A

7.3.12 Compliance Procedures

a. The affected existing material handling units shall be monitored visually on a daily basis.

7.4 Unit 04: "New" material handling units
Control: Various dust control equipment/baghouses

7.4.1 Description

Emission unit 04 consists of various "new" material handling units (baggers, load out systems, bag packers, transporting systems, conveyors, etc.) which as a group, were installed on or after April 14,1972.

7.4.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit	Description	Emission Control Equipment
04	Lime Fines Transfer System	Lime Fines Hydrate Bin Collector (ALG518) and Lime Fines Hydrate Bin Collector (ALG520)
	Lime Load Out System 5	Load Out Collector 5 (ALG510)
	Lime Handling System Kiln 5	Storage Collector Kiln 5 (ALG500)
	Lime Blower Tank	Blower Tank Collector (ALG410)
	Pebble Lime Transfer to Grinding	Lime Transfer Tower Collector (ALG400)
	Lime Grinding, Storage and Load Out	Grinding, Storage and Load Out Collector (ALG 440)
	Flue Dust Barge Load Out	Barge Load out Collector (AKG575)

7.4.3 Applicability Provisions and Applicable Regulations

a. The "affected "new" material handling units" for the purpose of these unit-specific conditions, are the material handling units listed in 7.4.2.

b. The affected new material handling units are subject to the emission limits identified in Condition 5.2.2.

c. The affected new material handling units are subject to 35 IAC 212.321, which states:

No person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any new process emission unit which,

either alone or in combination with the emission of particulate matter from all other similar process emission units for which construction or modification commenced on or after April 14, 1972, at a source or premises, exceeds the allowable emission rates specified in subsection (c) of 35 IAC 212.321 (see also Attachment 10.1) [35 IAC 212.321(a)].

d. The affected new material handling units are subject to 35 IAC 212.425(b)(6) which states:

No person shall cause or allow the emission of PM_{10}, other than that of fugitive particulate matter, into the atmosphere to exceed the following limits during any one hour period: 22.9 mg/scm (0.01 gr/scf) for all other process emission units (*besides kilns*) in the lime manufacturing industry. [35 IAC 212.425 (b)(6)]

7.4.4 Non-Applicability of Regulations of Concern

a. This permit is issued based on the affected new material handling units not being subject to the New Source Performance Standards (NSPS) for Non-Metallic Mineral Processing, 40 CFR 60 Subpart OOO because the affected existing material handling units were installed prior to August 31, 1983.

b. This permit is issued based on the affected new material handling units not being subject to 35 IAC 212.322 because the affected new material handling units were installed after April 14, 1972.

c. This permit is issued based on the affected new material handling units not being subject to 35 IAC 212.324(b), General Emission Limit for PM_{10}, because the affected existing material handling units are subject to the more stringent 35 IAC 425(b)(6).

7.4.5 Control Requirements

None

7.4.6 Emission Limitations

There are no specific emission limitations for these units, however, there are source wide emission limitations in Condition 5.5 that include these units.

7.4.7 Operating Requirements

None

7.4.8 Inspection Requirements

The affected existing material handling units are subject to 35 IAC 212.324(f), which states: Proper maintenance shall include the following minimum requirements:

a. Visual inspections of air pollution control equipment; [35 IAC 212.324(f)(1)]

b. Maintenance of an adequate inventory of spare parts; [35 IAC 212.324(f)(2)]

c. Expeditious repairs, unless the emission unit is shutdown. [35 IAC 212.324(f)(3)]

7.4.9 Recordkeeping Requirements

In addition to the records required by Condition 5.6, the Permittee shall maintain records of the following items for each affected new material handling unit to demonstrate compliance with 5.5.1, pursuant to Section 39.5(7)(b) of the Act:

a. Throughput of product rate (process weight rate) for the systems in tons/month and tons/year.

b. The aggregate monthly and yearly Particulate Matter emissions from the system, based on the use of applicable emission factors based on the operating schedule and the typical hourly emission rate, with supporting calculations.

c. Pursuant to 35 IAC 212.324(g), the Permittee shall keep:

i. Written records of inventory and documentation of inspections, maintenance, and repairs of all air pollution control equipment. [35 IAC 212.324(g)(1)]

ii. The owner or operator shall document any period during which any process emission unit was in operation when the air pollution control equipment was not in operation or was malfunctioning so as to cause an emissions

level in excess of the emission limitation. These records shall include documentation of causes for pollution control equipment not operating or such malfunction and shall state what corrective actions were taken and what repairs were made. [35 IAC 212.324(g)(2)]

iii. A written record of the inventory of all spare parts not readily available from local suppliers shall be kept and updated. [35 IAC 212.324(g)(3)]

iv. Copies of all records required by Condition 7.4.9 shall be submitted to the Agency within ten (10) working days after a written request by the Agency. [35 IAC 212.324(g)(4)]

v. The records required under Condition 7.4.9 shall be kept and maintained for at least three (3) years and shall be available for inspection and copying by Agency representatives during working hours. [35 IAC 212.324(g)(5)]

7.4.10 Reporting Requirements

The Permittee shall promptly notify the Illinois EPA, Compliance Section, of deviations of the affected existing material handling units, with the permit requirements as follows, pursuant to Section 39.5(7)(f)(ii) of the Act. Reports shall describe the probable cause of such deviations, and any corrective actions or preventive measures taken:

a. Upon written request by the Agency, a report shall be submitted to the Agency for any period specified in the request stating the following: the dates during which any process emission unit was in operation when the air pollution control equipment was not in operation or was not operating properly, documentation of causes for pollution control equipment not operating or not operating properly, and a statement of what corrective actions were taken and what repairs were made. [35 IAC 212.324(g)(6)]

7.4.11 Operational Flexibility/Anticipated Operating Scenarios

N/A

7.4.12 Compliance Procedures.

a. Compliance with the particulate matter limitations in Section 7.4 is assured and achieved by the proper operation and maintenance of fabric filters as required by this permit and the work practices inherent in operation of the affected system.

b. Compliance with emission limitations of Conditions 7.4.3 and 7.4.6 shall be determined based on the recordkeeping requirements of Condition 7.4.9(a) and the formula listed below:

$ER = \Sigma\ PR * EF * (1-CE) * (ton/2000\ lb)$

Where

ER = Emission rate (ton per year)
PR = Production rate (ton per year)
CE = Control efficiency
EF = Emission Factor (pounds per ton):

For drops = 0.0123
For screen operation = 0.00013
For load outs = 0.61

7.5 Unit 05: Emission Units 05 are material handling units or process emission units which are subject to 40 CFR 60 Subpart OOO Standards of Performance for Non-Metallic Mineral Processing Plants. The applicable emission units were installed or modified after August 31, 1983.

Control: Various dust collection equipment consisting of enclosures, dry filters (baghouses), and a wet scrubber.

7.5.1 Description

These emission units are items used to transport and/or store various materials including coal, coke, limestone, lime, hydrated lime, flue dust, pebble lime and lime fines. The 5 Load out Rescreen System will screen, for clients' different needs, the pebble lime being currently stored. This system is comprised of two belt conveyors, two screening systems, screw conveyors, a bucket elevator, and two load out spouts to fill both railcars and trucks. Air pollution control equipment is comprised of a fabric filter dust collection system that will control PM emissions from each proposed drop point, screen, and load out (sixteen points in total). The Lime Briquette System consists of two 10 and one 12-inch screw conveyors, one double roll crusher, one additive hopper/feeder, two briquettes, one 36-foot belt conveyor, and one dust collector (ALG600) with fan

7.5.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit	Description	Emission Control Equipment
05	Flue Dust Barge Load Out	Barge Load out Collector (AKG575)
	Spar Bin	Spar Bin Vent Collector (ALG485)
	Rail Load out	Rail Load out Baghouse (ALG350)
	North Reclaim Hopper	N. Reclaim Baghouse (ALG180)
	Lime Transfer System 5	Lime Transfer Collector (ALG570)
	Lime Reclaim System – North Plant	Lime Reclaim Hopper Collector (ALG 180)
	Lime Briquette System	Dust Collector (ALG600)

Emission Unit	Description	Emission Control Equipment
05 (Cont.)	Load out Rescreen System 5	Dust Collector
	Flue Dust Handling System	Flue Dust Dry Load Out Collector (AKG167) and Control 24B-Tanks 7 and 8 Collector (AKG171)
	Flue Dust Pug Mill	Flue Dust Pug Mill Scrubber (AK464)
	Kiln 5 Flue Dust Tank and Load out System	Flue Dust Storage and Load Out Collector- Kiln 5 (AKG550)
	Flue Dust Barge Load Out	Barge Load out Collector (AKG575)

7.5.3 Applicability Provisions and Applicable Regulations

a. The "affected non-metallic material handling units" for the purpose of these unit-specific conditions, are the emission units listed in 7.6.1.

b. The affected non-metallic material handling units are subject to the emission limits identified in Condition 5.2.2.

c. The affected non-metallic material handling units are subject to 40 CFR 60.672 Subpart OOO. Standards of Performance for Non-Metallic Mineral Processing Plants-Standards for Particulate Matter, which states:

i. On and after the date on which the performance test required to be conducted by 40 CFR 60.8 is completed, no owner or operator subject to the provisions of 40 CFR 60 Subpart OOO shall cause to be discharged into the atmosphere from any transfer point on belt conveyors or from any other affected facility any stack emissions which [40 CFR 672(a)]:

A. Contain particulate matter in excess of 0.05 g/dscm; and [40 CFR 60.672(a)(1)]

B. Exhibit greater than 7 percent opacity, unless the stack emissions are discharged

from an affected facility using a wet scrubbing control device. Facilities using a wet scrubber must comply with the reporting provisions of 40 CFR 60.676 (c), (d), and (e). [40 CFR 60.672(a)(2)]

ii. On and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup as required under 40 CFR 60.11, no owner or operator subject to the provisions of 40 CFR 60 Subpart OOO shall cause to be discharged into the atmosphere from any transfer point on belt conveyors or from any other affected facility, any fugitive emissions which exhibit greater than 10 percent opacity, except as provided in 40 CFR 672(c),(d), and (e). [40 CFR 60.672(b)]

iii. On and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup as required by 40 CFR 60.11, no owner or operator shall cause to be discharged into the atmosphere from any crusher, at which a capture system is not used, fugitive emissions which exhibit greater than 15 percent opacity. [40 CFR 60.672(c)]

iv. Truck dumping of nonmetallic minerals into any screening operation, feed hopper, or crusher is exempt from the requirements 40 CFR 60.672. [40 CFR 60.672(d)]

v. If any transfer point on a conveyor belt or any other affected facility is enclosed in a building, then each enclosed affected facility must comply with the emission limits in 40 CFR 60.672(a), (b) and (c), or the building enclosing the affected facility or facilities must comply with the following emission limits: [40 CFR 60.672(e)]

A. No owner or operator shall cause to be discharged into the atmosphere from any building enclosing any transfer point on a conveyor belt or any other affected

facility any visible fugitive emissions except emissions from a vent as defined in 40 CFR 60.671. [40 CFR 60.672(e)(1)]

B. No owner or operator shall cause to be discharged into the atmosphere from any vent of any building enclosing any transfer point on a conveyor belt or any other affected facility emissions which exceed the stack emissions limits in 40 CFR 60.672(a). [40 CFR 60.672(e)(2)]

vi. On and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup as required under 40 CFR 60.11, no owner or operator shall cause to be discharged into the atmosphere from any baghouse that controls emissions from only an individual, enclosed storage bin, stack emissions which exhibit greater than 7 percent opacity. [40 CFR 60.672(f)]

vii. Owners or operators of multiple storage bins with combined stack emissions shall comply with the emission limits in 40 CFR 60.672(a)(1) and (a)(2). [40 CFR 60.672(g)]

viii. On and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup, no owner or operator shall cause to be discharged into the atmosphere any visible emissions from: [40 CFR 60.672(h)]

A. Wet screening operations and subsequent screening operations, bucket elevators, and belt conveyors that process saturated material in the production line up to the next crusher, grinding mill or storage bin. [40 CFR 60.672(h)(1)]

B. Screening operations, bucket elevators, and belt conveyors in the production line downstream of wet mining operations, where such screening operations, bucket elevators, and belt conveyors process

saturated materials up to the first crusher, grinding mill, or storage bin in the production line. [40 CFR 60.672(h)(2)]

d. The affected non-metallic material handling units are subject to 35 IAC 212.321, which states:

No person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any new process emission unit which, either alone or in combination with the emission of particulate matter from all other similar process emission units for which construction or modification commenced on or after April 14, 1972, at a source or premises, exceeds the allowable emission rates specified in subsection (c) of 35 IAC 212.321 (see also Attachment 10.1) [35 IAC 212.321(a)].

e. The affected non-metallic material handling units are subject to 35 IAC 212.425(b)(6) which states:

No person shall cause or allow the emission of PM_{10}, other than that of fugitive particulate matter, into the atmosphere to exceed the following limits during any one hour period: 22.9 mg/scm (0.01 gr/scf) for all other process emission units in the lime manufacturing industry. [35 IAC 212.425(b)(6)]

7.5.4 Non-Applicability of Regulations of Concern

a. This permit is issued based on the affected material handling units not being subject to 35 IAC 212.322 because the affected material handling units were installed after April 14, 1972.

b. This permit is issued based on the affected material handling units not being subject to 35 IAC 212.324 b), General Emission Limit for PM_{10}, because the affected existing material handling units are subject to the more stringent 35 IAC 425(b)(6).

7.5.5 Control Requirements

a. Control systems for the affected non-metallic material handling units must perform so as to achieve compliance with the limits given in Condition 7.3.3.

7.5.6 Emission Limitations

In addition to Condition 5.2.2 and the source wide emission limitations in Condition 5.5, the affected non-metallic material handling units are subject to the following:

a. Emissions from the affected flue dust tanks 7 and 18 load out shall not exceed the following limits:

Emission Unit	PM Emissions (LB/Hr)	PM Emissions (Ton/Year)
Tanks 7 and 18	0.52	0.8
Waste dump Hopper	0.1	0.44

These limits are based on a Process Weight Rate of 20 Tons/Hr and 2,912 Hr/Yr of operation for tanks 7 and 18 [T1].

Compliance with annual limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months (running 12 month total) [T1].

The above limitations were established in Permits 96030278 and 72111414, pursuant to 35 IAC Part 203. These limits ensure that the construction and/or modification addressed in the aforementioned permit does not constitute a new major source or major modification pursuant to Title I of the CAA, specifically 35 IAC Part 203 [T1].

b. Emissions from the affected 5 Load out Rescreen System shall not exceed the following limits:

PM Emissions Ton/Month	PM Emissions Ton/Year
0.1	0.8

These limits are based on the Emission Factors of 0.0123 for drops and 0.00013 for the screen operation and 0.61 for the load outs and Maximum Throughput of product of 584,000 tons per year at the maximum operating hours of 8760 hours per year including Product Recovery Efficiency factors of control units (fabric filters (99.8%)). Compliance with annual

limits shall be determined from a running total of 12 months of data [T1].

The above limitations were established in Permit 99060097, pursuant to 35 IAC Part 203. These limits ensure that the construction and/or modification addressed in the aforementioned permit does not constitute a new major source or major modification pursuant to Title I of the CAA, specifically 35 IAC Part 203 [T1].

c. Emissions from the Lime Briquette System shall not exceed the following limits:

Item of Equipment	Process Weight Rate		PM Emissions	
	(Ton/Hr)	(Ton/Yr)	(Lb/Hr)	(Ton/Yr)
Double Roll Crusher	10	87,600	0.0017	0.007
Additive Hopper/Feeder	10	87,600	0.22	0.96
Surge Bin	10	87,600	0.22	0.96
36 Foot Belt Conveyor	10	87,600	0.44	1.92

These limits are based on the maximum process weight rate of each component by system design, maximum operating hours (8,760 hr/yr), standard emission factors, and 99% control of processes and transfer points exposed to the atmosphere [T1].

Compliance with annual limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months (running 12 month total) [T1].

The above limitations were established in Permit 96040033, pursuant to 35 IAC Part 203. These limits ensure that the construction and/or modification addressed in the aforementioned permit does not constitute a new major source or major modification pursuant to Title I of the CAA, specifically 35 IAC Part 203 [T1].

d. Emissions and operation of equipment shall not exceed the following limits:

Item of Equipment	Process Weight Rate of Lime		PM Emissions	
	(Lb/Hr)	(Ton/Yr)	(Lb/Hr)	(Ton/Yr)
Spar Bin Vent	50,000	2750	0.11	0.006
Rail Load out System	350,000	145,600	0.60	0.25
Lime Transfer Station	40,000	41,600	0.43	0.45
North Plant Reclaim Hopper	40,000	41,600	0.19	0.19

These limits are based on maximum throughput, emissions and operating time information supplied in the permit application [T1].

Compliance with annual limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months (running 12 month total) [T1].

The above limitations were established in Permit 96010035, pursuant to 35 IAC Part 203. These limits ensure that the construction and/or modification addressed in the aforementioned permit does not constitute a new major source or major modification pursuant to Title I of the CAA, specifically 35 IAC Part 203 [T1].

7.5.7 Operating Requirements

None

7.5.8 Inspection and Monitoring Requirements

The affected non-metallic material handling units are subject to the monitoring requirements of 40 CFR 60.674 which states:

a. The owner or operator of any affected facility subject to the provisions of 40 CFR 60 Subpart OOO which uses a wet scrubber to control emissions shall install, calibrate, maintain and operate the following monitoring devices: [40 CFR 60.674]

i. A device for the continuous measurement of the pressure loss of the gas stream through the scrubber. The monitoring device must be certified by the manufacturer to be accurate within ±250 Pascals ±1 inch water gauge pressure and must be calibrated on an annual basis in accordance with manufacturer's instructions. [40 CFR 60.674(a)]

ii. A device for the continuous measurement of the scrubbing liquid flow rate to the wet scrubber. The monitoring device must be certified by the manufacturer to be accurate within ±5 percent of design scrubbing liquid flow rate and must be calibrated on an annual basis in accordance with manufacturer's instructions. [40 CFR 60.674(b)]

7.5.9 Recordkeeping Requirements

In addition to the records required by Condition 5.6, the Permittee shall maintain records of the following items for each affected material handling unit to demonstrate compliance with condition 5.5.1 and 7.5.6 pursuant to Section 39.5(7)(b) of the Act: 2.1.9

The Permittee shall maintain records of the following items for the system to demonstrate compliance:

a. Throughput of product rate (process weight rate) for the systems in tons/month and tons/year.

b. The aggregate monthly and yearly Particulate Matter emissions from the system, based on the use of applicable emission factors based on the operating schedule and the typical hourly emission rate, with supporting calculations.

7.5.10 Reporting Requirements

The Permittee shall promptly notify the Illinois EPA, Compliance Section, of deviations of the affected material handling units with the permit requirements as follows, pursuant to Section 39.5(7)(f)(ii) of the Act. Reports shall describe the probable cause of such deviations, and any corrective actions or preventive measures taken:

a. Reporting of Malfunctions and Breakdowns.

The Permittee shall provide the following notification and reports to the Illinois EPA, Compliance Section and Regional Field Office, pursuant to 35 IAC 201.263, concerning continued operation of an affected material handling unit subject to Condition 7.1.3(c) during malfunction or breakdown of the control features of the affected material handling unit.

i. The Permittee shall notify the Illinois EPA's regional office by telephone as soon as possible during normal working hours, but no later than three (3) days, upon the occurrence of noncompliance due to malfunction or breakdown.

ii. Upon achievement of compliance, the Permittee shall give a written follow-up notice to the Illinois EPA, Compliance Section and Regional Field Office, providing a detailed explanation of the event, an explanation why continued operation of the affected material handling unit was necessary, the length of time during which operation continued under such conditions, the measures taken by the Permittee to minimize and correct deficiencies with chronology, and when the repairs were completed or when the affected unit was taken out of service.

iii. If compliance is not achieved within 5 working days of the occurrence, the Permittee shall submit interim status reports to the Illinois EPA, Compliance Section and Regional Field Office, within 5 days of the occurrence and every 14 days thereafter, until compliance is achieved. These interim reports shall provide a brief explanation of the nature of the malfunction or breakdown, corrective actions accomplished to date, actions anticipated to occur with schedule, and the expected date on which repairs will be complete or the VARIABLE will be taken out of service.

b. The affected Non-Metallic Mineral Processing material handling units are subject to the reporting requirements of Subpart OOO, 40 CFR 60.676 as follows:

i. Each owner or operator seeking to comply with 40 CFR 60.670(d) shall submit to the Administrator the following information about the existing facility being replaced and the replacement piece of equipment. [40 CFR 60.676(a)]

A. For a crusher, grinding mill, bucket elevator, bagging operation, or enclosed truck or railcar loading station: [40 CFR 60.676(a)(1)]

I. The rated capacity in tons per hour of the existing facility being replaced and [40 CFR 60.676(a)(1)(i)]

II. The rated capacity in tons per hour of the replacement equipment. [40 CFR 60.676(a)(1)(ii)]

B. For a screening operation: [40 CFR 60.676(a)(2)]

I. The total surface area of the top screen of the existing screening operation being replaced and [40 CFR 60.676(a)(2)(i)]

II. The total surface area of the top screen of the replacement screening operation. [40 CFR 60.676(a)(2)(ii)]

C. For a conveyor belt: [40 CFR 60.676(a)(3)]

I. The width of the existing belt being replaced and [40 CFR 60.676(a)(3)(i)]

II. The width of the replacement conveyor belt. [40 CFR 60.676(a)(3)(ii)]

D. For a storage bin: [40 CFR 60.676(a)(4)]

I. The rated capacity in tons of the existing storage bin being replaced and [40 CFR 60.676(a)(4)(i)]

II. The rated capacity in tons of replacement storage bins. [40 CFR 60.676(a)(4)(ii)]

c. During the initial performance test of a wet scrubber, and daily thereafter, the owner or operator shall record the measurements of both the change in pressure of the gas stream across the scrubber and the scrubbing liquid flow rate. [40 CFR 60.676(c)]

d. After the initial performance test of a wet scrubber, the owner or operator shall submit semi-annual reports to the Administrator of occurrences when the measurements of the scrubber pressure loss (or gain) and liquid flow rate differ by more than ±30 percent from the averaged determined during the most recent performance test. [40 CFR 60.676(d)]

e. The reports required under 40 CFR 60.676(d) above shall be postmarked within 30 days following end of the second and fourth calendar quarters. [40 CFR 60.676(e)]

f. The owner or operator of any affected facility shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards set forth in 40 CFR 60.672, including reports of opacity observations made using Method 9 to demonstrate compliance with 40 CFR 60.672(b), (c), and (f), and reports of observations using Method 22 to demonstrate compliance with 40 CFR 60.672(e). [40 CFR 60.676(f)]

g. The owner or operator of any screening operation, bucket elevator, or belt conveyor that processes saturated material and is subject to 40 CFR 60.672(h) and subsequently processes unsaturated materials, shall submit a report of this change within 30 days following such change. This screening operation, bucket elevator, or belt conveyor is then subject to the 10 percent opacity limit in 40 CFR 60.672(b) and the emission test requirements of 40 CFR 60.11 and 40 CFR 60.676. Likewise a screening operation, bucket

elevator, or belt conveyor that processes unsaturated material but subsequently processes saturated material shall submit a report of this change within 30 days following such change. This screening operation, bucket elevator, or belt conveyor is then subject to the no visible emission limit in 40 CFR 60.672(h). [40 CFR 60.676(g)]

h. The subpart A requirement under 40 CFR 60.7(a)(2) for notification of the anticipated date of initial startup of an affected facility shall be waived for owners or operators of affected facilities regulated under 40 CFR 60 Subpart OOO. [40 CFR 60.676(h)]

i. A notification of the actual date of initial startup of each affected facility shall be submitted to the Administrator. [40 CFR 60.676(i)]

   i. For a combination of affected facilities in a production line that begin actual initial startup on the same day, a single notification of startup may be submitted by the owner or operator to the Administrator. The notification shall be postmarked within 15 days after such date and shall include a description of each affected facility, equipment manufacturer, and serial number of the equipment, if available. [40 CFR 60.676(i)(1)]

   ii. For portable aggregate processing plants, the notification of the actual date of initial startup shall include both the home office and the current address or location of the portable plant. [40 CFR 60.676(i)(2)]

j. The requirements of 40 CFR 60 Subpart OOO remain in force until and unless the Agency, in delegating enforcement authority to a State under section 111(c) of the Act, approves reporting requirements or an alternative means of compliance surveillance adopted by such States. In that event, affected facilities within the State will be relieved of the obligation to comply with the reporting requirements of 40 CFR 60.676, provided that they comply with requirements established by the State. [40 CFR 60.676(j)]

7.5.11 Operational Flexibility/Anticipated Operating Scenarios

N/A

7.5.12 Compliance Procedures

The affected material handling units are subject to the requirements of 40 CFR 60.675, which states:

a. In conducting the performance tests required in 40 CFR 60.8, the owner or operator shall use as reference methods and procedures the test methods in appendix A of 40 CFR 60.8 or other methods and procedures as specified in 40 CFR 60.675, except as provided in 40 CFR 60.8(b). Acceptable alternative methods and procedures are given in 40 CFR 60.8(e). [40 CFR 60.675(a)]

b. The owner or operator shall determine compliance with the particulate matter standards in 40 CFR 60.672(a) as follows: [40 CFR 60.675(b)]

   i. Method 5 or Method 17 shall be used to determine the particulate matter concentration. The sample volume shall be at least 1.70 dscm (60 dscf). For Method 5, if the gas stream being sampled is at ambient temperature, the sampling probe and filter may be operated without heaters. If the gas stream is above ambient temperature, the sampling probe and filter may be operated at a temperature high enough, but no higher than 121 °C (250 °F), to prevent water condensation on the filter. [40 CFR 60.675(b)(1)]

   ii. Method 9 and the procedures in 40 CFR 60.11 shall be used to determine opacity. [40 CFR 60.675(b)(2)]

c.1. In determining compliance with the particulate matter standards in 40 CFR 60.672 (b) and (c), the owner or operator shall use Method 9 and the procedures in 40 CFR 60.11, with the following additions: [40 CFR 60.675(c)(1)]

   i. The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet). [40 CFR 60.675(c)(1)(i)]

ii. The observer shall, when possible, select a position that minimizes interference from other fugitive emission sources (e.g., road dust). The required observer position relative to the sun (Method 9, Section 2.1) must be followed. [40 CFR 60.675(c)(1)(ii)]

iii. For affected facilities using wet dust suppression for particulate matter control, a visible mist is sometimes generated by the spray. The water mist must not be confused with particulate matter emissions and is not to be considered a visible emission. When a water mist of this nature is present, the observation of emissions is to be made at a point in the plume where the mist is no longer visible. [40 CFR 60.675(c)(1)(iii)]

c.2. In determining compliance with the opacity of stack emissions from any baghouse that controls emissions only from an individual enclosed storage bin under 40 CFR 60.672(f), using Method 9, the duration of the Method 9 observations shall be 1 hour (ten 6-minute averages). [40 CFR 60.675(c)(2)]

c.3. When determining compliance with the fugitive emissions standard for any affected facility described under 40 CFR 60.672(b), the duration of the Method 9 observations may be reduced from 3 hours (thirty 6-minute averages) to 1 hour (ten 6-minute averages) only if the following conditions apply: [40 CFR 60.675(c)(3)]

i. There are no individual readings greater than 10 percent opacity; and [40 CFR 60.675(c)(3)(i)]

ii. There are no more than 3 readings of 10 percent for the 1-hour period. [40 CFR 60.675(c)(3)(ii)]

c.4. When determining compliance with the fugitive emissions standard for any crusher at which a capture system is not used as described under 40 CFR 60.672(c), the duration of the Method 9 observations may be reduced from 3 hours (thirty 6-minute averages) to 1 hour (ten 6-minute averages) only if the following conditions apply: [40 CFR 60.675(c)(4)]

i. There are no individual readings greater than 15 percent opacity; and [40 CFR 60.675(c)(4)(i)]

ii. There are no more than 3 readings of 15 percent for the 1-hour period. [40 CFR 60.675(c)(4)(ii)]

d. In determining compliance with 40 CFR 60.672(e), the owner or operator shall use Method 22 to determine fugitive emissions. The performance test shall be conducted while all affected facilities inside the building are operating. The performance test for each building shall be at least 75 minutes in duration, with each side of the building and the roof being observed for at least 15 minutes. [40 CFR 60.675(d)]

e. The owner or operator may use the following as alternatives to the reference methods and procedures specified in 40 CFR 60.675: [40 CFR 60.675(e)]

i. For the method and procedure of 40 CFR 60.675(c), if emissions from two or more facilities continuously interfere so that the opacity of fugitive emissions from an individual affected facility cannot be read, either of the following procedures may be used: [40 CFR 60.675(e)(1)]

A. Use for the combined emission stream the highest fugitive opacity standard applicable to any of the individual affected facilities contributing to the emissions stream. [40 CFR 60.675(e)(1)(i)]

B. Separate the emissions so that the opacity of emissions from each affected facility can be read. [40 CFR 60.675(e)(1)(ii)]

f. To comply with 40 CFR 60.676(d), the owner or operator shall record the measurements as required in 40 CFR 60.676(c) using the monitoring devices in 40 CFR 60.674 (a) and (b) during each particulate matter run and shall determine the averages. [40 CFR 60.675(f)]

g. If, after 30 days notice for an initially scheduled performance test, there is a delay (due to operational problems, etc.) in conducting any re-scheduled performance test required in 40 CFR 60.675, the owner or operator of an affected facility shall submit a notice to the Administrator at least 7 days prior to any rescheduled performance test. [40 CFR 60.675(g)]

h. Initial Method 9 performance tests under 40 CFR 60.11 and 40 CFR 60.675 are not required for: [40 CFR 60.675(h)]

   i. Wet screening operations and subsequent screening operations, bucket elevators, and belt conveyors that process saturated material in the production line up to, but not including the next crusher, grinding mill or storage bin. [40 CFR 60.675(h)(1)]

   ii. Screening operations, bucket elevators, and belt conveyors in the production line downstream of wet mining operations, that process saturated materials up to the first crusher, grinding mill, or storage bin in the production line. [40 CFR 60.675(h)(2)]

i. Compliance with the terms and limits given above for the affected non-metallic mineral material handling units can be maintained or determined using plant personnel or consultants certified in Method 9 and by stack testing of appropriate stacks or vents using approved USEPA methods.

j. Compliance with the particulate matter limitations in Section 7.5 is assured and achieved by the proper operation and maintenance of fabric filters as required by this permit and the work practices inherent in operation of the affected system.

k. Compliance with emission limitations of Condition 7.5.6 shall be determined based on the recordkeeping requirements and the formula listed below:

   $ER = \Sigma\ PR * EF * (1-CE) * (ton/2000\ lb)$

   Where

   ER = Emission rate (ton per year)

PR = Production rate (ton per year)
CE = Control efficiency
EF = Emission Factor (pounds per ton)
For drops = 0.0123
For screen operation = 0.00013
For load outs = 0.61

7.6 Unit: Fugitive Particulate Emissions
Control: Fugitive Dust Operating Program

7.6.1 Carmeuse Lime Co., Inc. has potential fugitive particulate emission units consisting of unpaved roads, paved roads, coal, coke and limestone storage stockpiles. These "non-point source" units are controlled by various wetting or crusting agents or operating procedures given in a plant-wide fugitive dust operating program designed to significantly reduce particulate matter and PM_{10} emissions.

7.6.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit	Description	Emission Control Equipment
06	Unpaved roads Paved roads Coal and coke storage Limestone storage	Fugitive Dust Operating Program

7.6.3 Applicability Provisions and Applicable Regulations

a. The "affected fugitive emission sources" for the purpose of these unit-specific conditions, are the unpaved and paved roadways, coal, coke and limestone storage piles and other miscellaneous stockpiles, parking areas and all plant surfaces, which provide a potential source of dust storage and/or potential air entrainment.

b. All normal traffic pattern access areas surrounding storage piles specified in Section 212.304 and all normal traffic pattern roads and parking facilities which are located on mining or manufacturing property shall be paved or treated with water, oils or chemical dust suppressants. All paved areas shall be cleaned on a regular basis. All areas treated with water, oils or chemical dust suppressants shall have the treatment applied on a regular basis, as needed, in accordance with the operating program required by 212.309, 212.310 and 212.312. [35 IAC 212.306]

c. All unloading and transporting operations of materials collected by pollution control equipment shall be enclosed or shall utilize spraying, pelletizing, screw conveying or other equivalent methods. [35 IAC 212.307]

d. Crushers, grinding mills, screening operations, bucket elevators, conveyor transfer points, conveyors, bagging operations, storage bins and fine product truck and railcar loading operations shall be sprayed with water or a surfactant solution, utilize choke-feeding or be treated by an equivalent method in accordance with an operating program. [35 IAC 212.308]

e. The affected fugitive emission sources are subject to the emission limits identified in Condition 5.2.2. Limitations given below [35 IAC 212.316(b), (c), (d) and (f)] apply because of the location of the emission source in the Lake Calumet PM_{10} non-attainment "certain area" which is specifically demarcated at 35 IAC 212.324(a)(1).

f. Emission Limitation for Crushing and Screening Operations. No person shall cause or allow fugitive particulate matter emissions generated by the crushing or screening of slag, stone, coke or coal to exceed an opacity of 10 percent. [35 IAC 212.316(b)]

g. Emission Limitations for Roadways or Parking Areas. No person shall cause or allow fugitive particulate matter emissions from any roadway or parking area to exceed an opacity of 10 percent, except that the opacity shall not exceed 5 percent at quarries with a capacity to produce more than 1 million T/yr of aggregate. [35 IAC 212.316(c)]

h. Emission Limitations for Storage Piles. No person shall cause or allow fugitive particulate matter emissions from any storage pile to exceed an opacity of 10 percent, to be measured four ft from the pile surface. [35 IAC 212.316(d)]

i. Emission Limitation for All Other Emission Units. Unless an emission unit has been assigned a particulate matter, PM_{10}, or fugitive particulate matter emissions limitation elsewhere in 35 IAC 212.316 or in Subparts R or S of 35 IAC 212, no person shall cause or allow fugitive particulate matter emissions from any emission unit to exceed an opacity of 20 percent. [35 IAC 212.316(f)]

7.6.4 Non-Applicability of Regulations of Concern

N/A

7.6.5 Control Requirements

a. Carmeuse Lime Co. Inc.'s Fugitive Dust Operating Program includes several measures designed to significantly reduce fugitive dust emissions and is incorporated herein.

7.6.6 Emission Limitations

In addition to limits given in 7.5.5 above, Condition 5.2.2 and the source wide emission limitations in Condition 5.5, the affected fugitive emission sources are subject to the following:

a. Combined fugitive emissions from the paved and unpaved roadways, coal, coke and limestone stockpiles at the subject lime manufacturing plant, shall not exceed the following:

Fugitive Point	PM Emissions (Ton/yr)
Unpaved roads	4.773
Paved roads	0.151
Coal and coke storage	0.144
Limestone storage	0.404

The above limits are taken from the source's Title V application using maximum rates and a 90% control efficiency. [T1N]

The above limitations are being established in this permit pursuant to Title I of the CAA, specifically 35 IAC Part 203, Major Stationary Sources Construction and Modification and/or 40 CFR 52.21, Prevention of Significant Deterioration (PSD). The Illinois EPA is establishing emission limitations and other appropriate terms and conditions in this permit that limit the PM emissions from the affected fugitive emission sources below the levels that would trigger the applicability of these rules, consistent with the information provided in the CAAPP application [T1N].

7.6.7 Testing Requirements

None

7.6.8 Monitoring Requirements

a. Carmeuse Lime Co., Inc. shall monitor weather conditions in accordance with procedures established in their Fugitive Dust Operating Program (incorporated hereunder).

7.6.9 Recordkeeping Requirements

In addition to the records required by Condition 5.6, the Permittee shall maintain records of the following items for the affected fugitive emission sources, pursuant to Section 39.5(7)(b) of the Act:

a. Recordkeeping and Reporting

i. The owner or operator of any fugitive particulate matter emission unit subject to 35 IAC 212.316 shall keep written records of the application of control measures as may be needed for compliance with the opacity limitations of 35 IAC 212.316 and shall submit to the Agency an annual report containing a summary of such information. [35 IAC 212.316(g)(1)]

ii. The records required under 35 IAC 212.316 shall include at least the following: [35 IAC 212.316(g)(2)]

A. The name and address of the source; [35 IAC 212.310(g)(2)(A)]

B. The name and address of the owner and/or operator of the source; [35 IAC 212.310(g)(2)(B)]

C. A map or diagram showing the location of all emission units controlled, including the location, identification, length, and width of roadways; [35 IAC 212.310(g)(2)(C)]

D. For each application of water or chemical solution to roadways by truck: the name and location of the roadway controlled, application rate of each truck, frequency of each application, width of each application, identification of each truck

used, total quantity of water or chemical used for each application and, for each application of chemical solution, the concentration and identity of the chemical; [35 IAC 212.310(g)(2)(D)]

E. For application of physical or chemical control agents: the name of the agent, application rate and frequency, and total quantity of agent, and, if diluted, percent of concentration, used each day; and [35 IAC 212.310(g)(2)(E)]

F. A log recording incidents when control measures were not used and a statement of explanation. [35 IAC 212.310(g)(2)(F)]

iii. Copies of all records required by 35 IAC 212.316 shall be submitted to the Agency within ten (10) working days after a written request by the Agency and shall be transmitted to the Agency by a company-designated person with authority to release such records. [35 IAC 212.310(g)(3)]

iv. The records required under 35 IAC 212 shall be kept and maintained for at least three (3) years and shall be available for inspection and copying by Agency representatives during working hours. [35 IAC 212.310(g)(4)]

7.6.10 Reporting Requirements

The Permittee shall promptly notify the Illinois EPA, Compliance Section, of noncompliance of an affected fugitive emission source with the permit requirements as follows, pursuant to Section 39.5(7)(f)(ii) of the Act. Reports shall describe the probable cause of such deviations, and any corrective actions or preventive measures taken:

Notification within 30 days following the occurrence of a violation of the affected fugitive emission sources with the conditions of Section 7.6 with a copy of such record for each incident.

a. The emission units described in Sections 212.304 through 212.308 and Sections 212.316 shall be operated under the provisions of an operating

program, consistent with the requirements set forth in 35 IAC 212.310 and 212.312, and prepared by the owner or operator and submitted to the Agency for its review. Such operating program shall be designed to significantly reduce fugitive particulate matter emissions. [35 IAC 212.309]

b. The owner or operator of any fugitive particulate matter emission unit subject to 35 IAC 212.316 shall keep written records of the application of control measures as may be needed for compliance with the opacity limitations of 35 IAC 212.316 and shall submit to the Agency an annual report containing a summary of such information. [35 IAC 212.316(g)(1)]

c. A quarterly report shall be submitted to the Agency stating the following: the dates any necessary control measures were not implemented, a listing of those control measures, the reasons that the control measures were not implemented, and any corrective actions taken. This information includes, but is not limited to, those dates when controls were not applied based on a belief that application of such control measures would have been unreasonable given prevailing atmospheric conditions, which shall constitute a defense to the requirements of 35 IAC 212.316. This report shall be submitted to the Agency thirty (30) calendar days from the end of a quarter. Quarters end March 31, June 30, September 30, and December 31. [35 IAC 212.316(g)(5)]

7.6.11 Operational Flexibility/Anticipated Operating Scenarios

a. The fugitive dust operating program shall be amended from time to time by the owner of operator so that the operating program is current. Such amendments shall be consistent with 35 IAC 212.316 and shall be submitted to the Agency for its review. [35 IAC 212.312]

7.6.12 Compliance Procedures

a. Emission calculations are based on the recordkeeping requirements in Condition 7.5.9 and the following emission factors and formulas.

i. Particulate Emissions From Vehicle Traffic

Unpaved Roadways

$E = k(5.9)(s/12)(S/30)(W/3)^{0.7}(w/4)^{0.5}(365 - p/365)$

Where E = emission factor (lb/VMT)

K = particle size multiplier (0.8 for TSP, 0.36 for PM_{10})

s = silt content of road surface material (%)

S = mean vehicle speed (mph)

W = mean vehicle weight (tons)

w = mean number of wheels

p = number of days with at least 0.01 in. of precipitation per year (120 for Chicago, IL)

Industrial Paved Roadways

$E = k\ (sL/2)^{0.65}(W/3)^{1.5}$

Where

E = emission factor (lb/VMT)

k = particle size multiplier (0.82 for TSP, 0.016 for PM_{10})

sL = road silt loading (g/m^2)

A 90% efficient water spray controls fugitive emissions. Therefore the controlled emissions are multiplied by an efficiency factor of 0.1 to determine actual controlled emissions.

ii. Particulate Emission Calculations From Storage Piles

For estimating particulate emissions from wind erosion from coke and coal storage piles, the following equations shall be used:

For active piles $E = k_a AD(1/2000)CF$

For inactive piles $E = k_i A(365-D)(1/2000)CF$

Where

E = emission factor, tons/year

k_a = active pile emission constant, lb/acre/day (13.2 for TSP, 6.6 for PM_{10})

k_i = inactive pile emission constant, lb/acre/day (3.5 for TSP, 1.75 for PM_{10})

A = stock pile size, acre

D = number of active days per year (365 days)

CF = control factor, dimensionless (0.5 for wet suppression)

The previous equations are referenced from a TNRCC report.

The Permittee has assumed that all coke and coal storage piles are active for 365 days/yr.

A 90% efficient water spray controls fugitive emissions. Therefore the controlled emissions are multiplied by an efficiency factor of 0.1 to determine actual controlled emissions.

iii. Opacity is measured according to USEPA reference method 9 by a certified observer.

8.0 GENERAL PERMIT CONDITIONS

8.1 Permit Shield

Pursuant to Section 39.5(7)(j) of the Act, the Permittee has requested and has been granted a permit shield. This permit shield provides that compliance with the conditions of this permit shall be deemed compliance with applicable requirements which were applicable as of the date the proposed permit for this source was issued, provided that either the applicable requirements are specifically identified within this permit, or the Illinois EPA, in acting on this permit application, has determined that other requirements specifically identified are not applicable to this source and this determination (or a concise summary thereof) is included in this permit.

This permit shield does not extend to applicable requirements which are promulgated after **_____{insert public notice start date}** (the date of issuance of the draft permit) unless this permit has been modified to reflect such new requirements.

8.2 Applicability of Title IV Requirements (Acid Deposition Control)

This source is not an affected source under Title IV of the CAA and is not subject to requirements pursuant to Title IV of the CAA.

8.3 Emissions Trading Programs

No permit revision shall be required for increases in emissions allowed under any USEPA approved economic incentives, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for elsewhere in this permit and that are authorized by the applicable requirement [Section 39.5(7)(o)(vii) of the Act].

8.4 Operational Flexibility/Anticipated Operating Scenarios

8.4.1 Changes Specifically Addressed by Permit

Physical or operational changes specifically addressed by the Conditions of this permit that have been identified as not requiring Illinois EPA notification may be implemented without prior notice to the Illinois EPA.

8.4.2 Changes Requiring Prior Notification

The Permittee is authorized to make physical or operational changes that contravene express permit terms

without applying for or obtaining an amendment to this permit, provided that [Section 39.5(12)(a)(i) of the Act]:

a. The changes do not violate applicable requirements;

b. The changes do not contravene federally enforceable permit terms or conditions that are monitoring (including test methods), recordkeeping, reporting, or compliance certification requirements;

c. The changes do not constitute a modification under Title I of the CAA;

d. Emissions will not exceed the emissions allowed under this permit following implementation of the physical or operational change; and

e. The Permittee provides written notice to the Illinois EPA, Division of Air Pollution Control, Permit Section, at least 7 days before commencement of the change. This notice shall:

i. Describe the physical or operational change;

ii. Identify the schedule for implementing the physical or operational change;

iii. Provide a statement of whether or not any New Source Performance Standard (NSPS) is applicable to the physical or operational change and the reason why the NSPS does or does not apply;

iv. Provide emission calculations which demonstrate that the physical or operational change will not result in a modification; and

v. Provide a certification that the physical or operational change will not result in emissions greater than authorized under the Conditions of this permit.

8.5 Testing Procedures

Tests conducted to measure composition of materials, efficiency of pollution control devices, emissions from process or control equipment, or other parameters shall be conducted using standard test methods. Documentation of the test date, conditions,

methodologies, calculations, and test results shall be retained pursuant to the recordkeeping procedures of this permit. Reports of any tests conducted as required by this permit or as the result of a request by the Illinois EPA shall be submitted as specified in Condition 8.6.

8.6 Reporting Requirements

8.6.1 Monitoring Reports

If monitoring is required by any applicable requirements or conditions of this permit, a report summarizing the required monitoring results, as specified in the conditions of this permit, shall be submitted to the Air Compliance Section of the Illinois EPA every six months as follows [Section 39.5(7)(f) of the Act]:

Monitoring Period	Report Due Date
January - June	September 1
July - December	March 1

All instances of deviations from permit requirements must be clearly identified in such reports. All such reports shall be certified in accordance with Condition 9.9.

8.6.2 Test Notifications

Unless otherwise specified elsewhere in this permit, a written test plan for any test required by this permit shall be submitted to the Illinois EPA for review at least 60 days prior to the testing pursuant to Section 39.5(7)(a) of the Act. The notification shall include at a minimum:

a. The name and identification of the affected unit(s);

b. The person(s) who will be performing sampling and analysis and their experience with similar tests;

c. The specific conditions under which testing will be performed, including a discussion of why these conditions will be representative of maximum emissions and the means by which the operating parameters for the source and any control equipment will be determined;

d. The specific determination of emissions and operation which are intended to be made, including sampling and monitoring locations;

e. The test method(s) which will be used, with the specific analysis method, if the method can be used with different analysis methods;

f. Any minor changes in standard methodology proposed to accommodate the specific circumstances of testing, with justification; and

g. Any proposed use of an alternative test method, with detailed justification.

8.6.3 Test Reports

Unless otherwise specified elsewhere in this permit, the results of any test required by this permit shall be submitted to the Illinois EPA within 60 days of completion of the testing. The test report shall include at a minimum [Section 39.5(7)(e)(i) of the Act]:

a. The name and identification of the affected unit(s);

b. The date and time of the sampling or measurements;

c. The date any analyses were performed;

d. The name of the company that performed the tests and/or analyses;

e. The test and analytical methodologies used;

f. The results of the tests including raw data, and/or analyses including sample calculations;

g. The operating conditions at the time of the sampling or measurements; and

h. The name of any relevant observers present including the testing company's representatives, any Illinois EPA or USEPA representatives, and the representatives of the source.

8.6.4 Reporting Addresses

a. The following addresses should be utilized for the submittal of reports, notifications, and renewals:

i. Illinois EPA - Air Compliance Section

Illinois Environmental Protection Agency
Bureau of Air
Compliance Section (MC 40)
P.O. Box 19276
Springfield, Illinois 62794-9276

ii. Illinois EPA - Air Regional Field Office

Illinois Environmental Protection Agency
Division of Air Pollution Control
9511 West Harrison
Des Plaines, Illinois 60016

iii. Illinois EPA - Air Permit Section

Illinois Environmental Protection Agency
Division of Air Pollution Control
Permit Section (MC 11)
P.O. Box 19506
Springfield, Illinois 62794-9506

iv. USEPA Region 5 - Air Branch

USEPA (AE - 17J)
Air & Radiation Division
77 West Jackson Boulevard
Chicago, Illinois 60604

b. Unless otherwise specified in the particular provision of this permit, reports shall be sent to the Illinois EPA - Air Compliance Section with a copy sent to the Illinois EPA - Air Regional Field Office.

8.7 Obligation to Comply with Title I Requirements

Any term, condition, or requirement identified in this permit by T1, T1R, or T1N is established or revised pursuant to 35 IAC Part 203 or 40 CFR 52.21 ("Title I provisions") and incorporated into this permit pursuant to both Section 39.5 and Title I provisions. Notwithstanding the expiration date on the first page of this permit, the Title I conditions remain in effect pursuant to Title I provisions until the Illinois EPA deletes or revises them in accordance with Title I procedures.

9.0 STANDARD PERMIT CONDITIONS

9.1 Effect of Permit

9.1.1 The issuance of this permit does not release the Permittee from compliance with State and Federal regulations which are part of the Illinois State Implementation Plan, as well as with other applicable statutes and regulations of the United States or the State of Illinois or applicable ordinances, except as specifically stated in this permit and as allowed by law and rule [Section 39.5(7)(j)(iv) of the Act].

9.1.2 In particular, this permit does not alter or affect the following:

a. The provisions of Section 303 (emergency powers) of the CAA, including USEPA's authority under that Section;

b. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;

c. The applicable requirements of the acid rain program consistent with Section 408(a) of the CAA; and

d. The ability of USEPA to obtain information from a source pursuant to Section 114 (inspections, monitoring, and entry) of the CAA.

9.1.3 Notwithstanding the conditions of this permit specifying compliance practices for applicable requirements, any person (including the Permittee) may also use other credible evidence to establish compliance or noncompliance with applicable requirements.

9.2 General Obligations of Permittee

9.2.1 Duty to Comply

The Permittee must comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the CAA and the Act, and is grounds for any or all of the following: enforcement action, permit termination, revocation and reissuance, modification, or denial of a permit renewal application [Section 39.5(7)(o)(i) of the Act].

The Permittee shall meet applicable requirements that become effective during the permit term in a timely manner unless an alternate schedule for compliance with the applicable requirement is established.

9.2.2 Duty to Maintain Equipment

The Permittee shall maintain all equipment covered under this permit in such a manner that the performance or operation of such equipment shall not cause a violation of applicable requirements.

9.2.3 Duty to Cease Operation

No person shall cause, threaten or allow the continued operation of any emission unit during malfunction or breakdown of the emission unit or related air pollution control equipment if such operation would cause a violation of an applicable emission standard, regulatory requirement, ambient air quality standard or permit limitation unless such malfunction or breakdown is allowed by a permit condition [Section 39.5(6)(c) of the Act].

9.2.4 Disposal Operations

The source shall be operated in such a manner that the disposal of air contaminants collected by the equipment operations, or activities shall not cause a violation of the Act or regulations promulgated thereunder.

9.2.5 Duty to Pay Fees

The Permittee must pay fees to the Illinois EPA consistent with the fee schedule approved pursuant to Section 39.5(18) of the Act, and submit any information relevant thereto [Section 39.5(7)(o)(vi) of the Act]. The check should be payable to "Treasurer, State of Illinois" and sent to: Fiscal Services Section, Illinois Environmental Protection Agency, P.O. Box 19276, Springfield, Illinois 62794-9276.

9.3 Obligation to Allow Illinois EPA Surveillance

Upon presentation of proper credentials and other documents, the Permittee shall allow the Illinois EPA, or an authorized representative to perform the following [Section 39.5(7)(a) and (p)(ii) of the Act and 415 ILCS 5/4]:

a. Enter upon the Permittee's premises where an actual or potential emission unit is located; where any regulated equipment, operation, or activity is located or where records must be kept under the conditions of this permit;

b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

c. Inspect during hours of operation any sources, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;

d. Sample or monitor any substances or parameters at any location:

i. At reasonable times, for the purposes of assuring permit compliance; or

ii. As otherwise authorized by the CAA, or the Act.

e. Obtain and remove samples of any discharge or emission of pollutants authorized by this permit; and

f. Enter and utilize any photographic, recording, testing, monitoring, or other equipment for the purposes of preserving, testing, monitoring, or recording any activity, discharge or emission at the source authorized by this permit.

9.4 Obligation to Comply with Other Requirements

The issuance of this permit does not release the Permittee from applicable State and Federal laws and regulations, and applicable local ordinances addressing subjects other than air pollution control.

9.5 Liability

9.5.1 Title

This permit shall not be considered as in any manner affecting the title of the premises upon which the permitted source is located.

9.5.2 Liability of Permittee

This permit does not release the Permittee from any liability for damage to person or property caused by or

resulting from the construction, maintenance, or operation of the sources.

9.5.3 Structural Stability

This permit does not take into consideration or attest to the structural stability of any unit or part of the source.

9.5.4 Illinois EPA Liability

This permit in no manner implies or suggests that the Illinois EPA (or its officers, agents or employees) assumes any liability, directly or indirectly, for any loss due to damage, installation, maintenance, or operation of the source.

9.5.5 Property Rights

This permit does not convey any property rights of any sort, or any exclusive privilege [Section 39.5(7)(o)(iv) of the Act].

9.6 Recordkeeping

9.6.1 Control Equipment Maintenance Records

A maintenance record shall be kept on the premises for each item of air pollution control equipment. As a minimum, this record shall show the dates of performance and nature of preventative maintenance activities.

9.6.2 Records of Changes in Operation

A record shall be kept describing changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under this permit, and the emissions resulting from those changes [Section 39.5(12)(b)(iv) of the Act].

9.6.3 Retention of Records

a. Records of all monitoring data and support information shall be retained for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records, original strip-chart recordings for

continuous monitoring instrumentation, and copies of all reports required by this permit [Section 39.5(7)(e)(ii) of the Act].

b. Other records required by this permit shall be retained for a period of at least 5 years from the date of entry unless a longer period is specified by a particular permit provision.

9.7 Annual Emissions Report

The Permittee shall submit an annual emissions report to the Illinois EPA, Compliance Section no later than May 1 of the following year, as required by 35 IAC Part 254.

9.8 Requirements for Compliance Certification

Pursuant to Section 39.5(7)(p)(v) of the Act, the Permittee shall submit annual compliance certifications. The compliance certifications shall be submitted no later than May 1 or more frequently as specified in the applicable requirements or by permit condition. The compliance certifications shall be submitted to the Air Compliance Section, Air Regional Field Office, and USEPA Region 5 – Air Branch. The addresses for the submittal of the compliance certifications are provided in Condition 8.6.4 of this permit.

a. The certification shall include the identification of each term or condition of this permit that is the basis of the certification; the compliance status; whether compliance was continuous or intermittent; the method(s) used for determining the compliance status of the source, both currently and over the reporting period consistent with the conditions of this permit.

b. All compliance certifications shall be submitted to USEPA Region 5 in Chicago as well as to the Illinois EPA.

c. All compliance reports required to be submitted shall include a certification in accordance with Condition 9.9.

9.9 Certification

Any document (including reports) required to be submitted by this permit shall contain a certification by a responsible official of the Permittee that meets the requirements of Section 39.5(5) of the Act [Section 39.5(7)(p)(i) of the Act]. An example Certification by a Responsible Official is included as an attachment to this permit.

9.10 Defense to Enforcement Actions

9.10.1 Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit [Section 39.5(7)(o)(ii) of the Act].

9.10.2 Emergency Provision

a. An emergency shall be an affirmative defense to an action brought for noncompliance with the technology-based emission limitations under this permit if the following conditions are met through properly signed, contemporaneous operating logs, or other relevant evidence:

i. An emergency occurred as provided in Section 39.5(7)(k) of the Act and the Permittee can identify the cause(s) of the emergency. Normally, an act of God such as lightning or flood is considered an emergency;

ii. The permitted source was at the time being properly operated;

iii. The Permittee submitted notice of the emergency to the Illinois EPA within two working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a detailed description of the emergency, any steps taken to mitigate emissions, and corrective actions taken; and

iv. During the period of the emergency the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission limitations, standards, or regulations in this permit.

b. This provision is in addition to any emergency or upset provision contained in any applicable requirement. This provision does not relieve a Permittee of any reporting obligations under existing federal or state laws or regulations.

9.11 Permanent Shutdown

This permit only covers emission units and control equipment while physically present at the indicated source location(s). Unless this permit specifically provides for equipment relocation, this permit is void for the operation or activity of any item of equipment on the date it is removed from the permitted location(s) or permanently shut down. This permit expires if all equipment is removed from the permitted location(s), notwithstanding the expiration date specified on this permit.

9.12 Reopening and Reissuing Permit for Cause

9.12.1 Permit Actions

This permit may be modified, reopened, and reissued, for cause pursuant to Section 39.5(15) of the Act. The filing of a request by the Permittee for a permit modification, revocation, and reissuance, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition [Section 39.5(7)(o)(iii) of the Act].

9.12.2 Reopening and Revision

This permit must be reopened and revised if any of the following occur [Section 39.5(15)(a) of the Act]:

a. Additional requirements become applicable to the equipment covered by this permit and three or more years remain before expiration of this permit;

b. Additional requirements become applicable to an affected source for acid deposition under the acid rain program;

c. The Illinois EPA or USEPA determines that this permit contains a material mistake or inaccurate statement when establishing the emission standards or limitations, or other terms or conditions of this permit; and

d. The Illinois EPA or USEPA determines that this permit must be revised to ensure compliance with the applicable requirements of the Act.

9.12.3 Inaccurate Application

The Illinois EPA has issued this permit based upon the information submitted by the Permittee in the permit application. Any misinformation, false statement or misrepresentation in the application shall be grounds for revocation under Section 39.5(15)(b) of the Act.

9.12.4 Duty to Provide Information

The Permittee shall furnish to the Illinois EPA, within a reasonable time specified by the Illinois EPA any information that the Illinois EPA may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. Upon request, the Permittee shall also furnish to the Illinois EPA copies of records required to be kept by this permit, or for information claimed to be confidential, the Permittee may furnish such records directly to USEPA along with a claim of confidentiality [Section 39.5(7)(o)(v) of the Act].

9.13 Severability Clause

The provisions of this permit are severable, and should any one or more be determined to be illegal or unenforceable, the validity of the other provisions shall not be affected. The rights and obligations of the Permittee shall be construed and enforced as if this permit did not contain the particular provisions held to be invalid and the applicable requirements underlying these provisions shall remain in force [Section 39.5(7)(i) of the Act].

9.14 Permit Expiration and Renewal

The right to operate terminates on the expiration date unless the Permittee has submitted a timely and complete renewal application. For a renewal to be timely it must be submitted no later than 9 and no sooner than 12 months prior to expiration. The equipment may continue to operate during the renewal period until final action is taken by the Illinois EPA, in accordance with the original permit conditions [Section 39.5(5)(l), (n), and (o) of the Act].

10.0 ATTACHMENTS

10.1 Attachment 1 Emissions of Particulate Matter from New Process Emission Units

10.1.1 Process Emission Units for Which Construction or Modification Commenced On or After April 14, 1972

a. No person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any new process emission unit, either alone or in combination with the emission of particulate matter from all other similar process emission units for which construction or modification commenced on or after April 14, 1972, at a source or premises, exceeds the allowable emission rates specified in subsection (c) of 35 IAC 212.321 [35 IAC 212.321(a)].

b. Interpolated and extrapolated values of the data in subsection (c) of 35 IAC 212.321 shall be determined by using the equation [35 IAC 212.321(b)]:

$$E = A(P)^B$$

where:

P = Process weight rate; and
E = Allowable emission rate; and,

i. Up to process weight rates of 408 Mg/hr (450 Ton/hr):

	Metric	English
P	Mg/hr	Ton/hr
E	kg/hr	lb/hr
A	1.214	2.54
B	0.534	0.534

ii. For process weight rate greater than or equal to 408 Mg/hr (450 Ton/hr):

	Metric	English
P	Mg/hr	Ton/hr
E	kg/hr	lb/hr
A	11.42	24.8
B	0.16	0.16

c. Limits for Process Emission Units For Which Construction or Modification Commenced On or After April 19, 1972 [35 IAC 212.321(c)]:

Metric		English	
P	E	P	E
Mg/hr	kg/hr	Ton/hr	lb/hr
0.05	0.25	0.05	0.55
0.1	0.29	0.10	0.77
0.2	0.42	0.2	1.10
0.3	0.64	0.30	1.35
0.4	0.74	0.40	1.58
0.5	0.84	0.50	1.75
0.7	1.00	0.75	2.40
0.9	1.15	1.00	2.60
1.8	1.66	2.00	3.70
2.7	2.1	3.00	4.60
3.6	2.4	4.00	5.35
4.5	2.7	5.00	6.00
9.0	3.9	10.00	8.70
13.0	4.8	15.00	10.80
18.0	5.7	20.00	12.50
23.0	6.5	25.00	14.00
27.0	7.1	30.00	15.60
32.0	7.7	35.00	17.00
36.0	8.2	40.00	18.20
41.0	8.8	45.00	19.20
45.0	9.3	50.00	20.50
90.0	13.4	100.00	29.50
140.0	17.0	150.00	37.00
180.0	19.4	200.00	43.00
230.0	22.0	250.00	48.50
270.0	24.0	300.00	53.00
320.0	26.0	350.00	58.00
360.0	28.0	400.00	62.00
408.0	30.1	450.00	66.00
454.0	30.4	500.00	67.00

10.2 Attachment 2 Emissions of Particulate Matter from Existing Process Emission Units

10.2.1 Process Emission Units for Which Construction or Modification Commenced Prior to April 14, 1972

a. No person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any process emission unit for which construction or modification commenced prior to April 14, 1972, which, either alone or in combination with the emission of particulate matter from all other similar process emission at a source or premises, exceeds the allowable emission rates specified in subsection (c) of 35 IAC 212.322 [35 IAC 212.322(a)].

b. Interpolated and extrapolated values of the data in subsection (c) of 35 IAC 212.321 shall be determined by using the equation [35 IAC 212.322(b)]:

$$E = C + A(P)^B$$

where:

P = Process weight rate; and
E = Allowable emission rate; and,

i. Up to process weight rates up to 27.2 Mg/hr (30 Ton/hr):

	Metric	English
P	Mg/hr	Ton/hr
E	kg/hr	lb/hr
A	1.985	4.10
B	0.67	0.67
C	0	0

ii. For process weight rate in excess of 27.2 Mg/hr (30 Ton/hr):

	Metric	English
P	Mg/hr	Ton/hr
E	kg/hr	lb/hr
A	25.21	55.0
B	0.11	0.11
C	-18.4	-40.0

c. Limits for Process Emission Units For Which Construction or Modification Commenced Prior to April 14, 1972 [35 IAC 212.322(c)]:

Metric		English	
P	E	P	E
Mg/hr	kg/hr	Ton/hr	lb/hr
0.05	0.27	0.05	0.55
0.1	0.42	0.10	0.87
0.2	0.68	0.2	1.40
0.3	0.89	0.30	1.83
0.4	1.07	0.40	2.22
0.5	1.25	0.50	2.58
0.7	1.56	0.75	3.38
0.9	1.85	1.00	4.10
1.8	2.9	2.00	6.52
2.7	3.9	3.00	8.56
3.6	4.7	4.00	10.40
4.5	5.4	5.00	12.00
9.0	8.7	10.00	19.20
13.0	11.1	15.00	25.20
18.0	13.8	20.00	30.50
23.0	16.2	25.00	35.40
27.2	18.15	30.00	40.00
32.0	18.8	35.00	41.30
36.0	19.3	40.00	42.50
41.0	19.8	45.00	43.60
45.0	20.2	50.00	44.60
90.0	23.2	100.00	51.20
140.0	25.3	150.00	55.40
180.0	26.5	200.00	58.60
230.0	27.7	250.00	61.00
270.0	28.5	300.00	63.10
320.0	29.4	350.00	64.90
360.0	30.0	400.00	66.20
400.0	30.6	450.00	67.70
454.0	31.3	500.00	69.00

10.3 Attachment 3 Example Certification by a Responsible Official

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: _____

Name: _____

Official Title: _____

Telephone No.: _____

Date Signed: _____

10.4 Attachment 4 Guidance on Revising This Permit

The Permittee must submit an application to the Illinois EPA using the appropriate revision classification in accordance with Sections 39.5(13) and (14) of the Act and 35 IAC 270.302. Specifically, there are currently three classifications for revisions to a CAAPP permit. These are:

1. Administrative Permit Amendment;

2. Minor Permit Modification; and

3. Significant Permit Modification.

The Permittee must determine, request, and submit the necessary information to allow the Illinois EPA to use the appropriate procedure to revise the CAAPP permit. A brief explanation of each of these classifications follows.

1. Administrative Permit Amendment

- Corrects typographical errors;
- Identifies a change in the name, address, or phone number of any person identified in the permit, or provides a similar minor administrative change at the source;
- Requires more frequent monitoring or reporting by the Permittee;
- Allows for a change in ownership or operational control of the source where no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage, and liability between the current and new Permittees has been submitted to the Illinois EPA. This shall be handled by completing form 272-CAAPP, REQUEST FOR OWNERSHIP CHANGE FOR CAAPP PERMIT; or
- Incorporates into the CAAPP permit a construction permit, provided the conditions of the construction permit meet the requirements for the issuance of CAAPP permits.

2. Minor Permit Modification

- Do not violate any applicable requirement;
- Do not involve significant changes to existing monitoring, reporting, or recordkeeping requirements in the permit;
- Do not require a case-by-case determination of an emission limitation or other standard, or a source-specific determination of ambient impacts, or a visibility or increment analysis;
- Do not seek to establish or change a permit term or condition for which there is no corresponding underlying requirement and which avoids an applicable requirement to which the source would otherwise be subject. Such terms and conditions include:
  - A federally enforceable emissions cap assumed to avoid classification as a modification under any provision of Title I of the CAA; and
  - An alternative emissions limit approved pursuant to regulations promulgated under Section 112(i)(5) of the CAA.
- Are not modifications under any provision of Title I of the CAA;
- Are not required to be processed as a significant permit modification; and
- Modifications involving the use of economic incentives, marketable permits, emissions trading, and other similar approaches.

An application for a minor permit modification shall include the following:

- A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs;
- The source's suggested draft permit/conditions;

- Certification by a responsible official that the proposed modification meets the criteria for use of minor permit modification procedures and a request that such procedures be used; and

- Information as contained on form 271-CAAPP, MINOR PERMIT MODIFICATION FOR CAAPP PERMIT for the Illinois EPA to use to notify USEPA and affected States.

3. Significant Permit Modification

- Applications that do not qualify as either minor permit modifications or as administrative permit amendments;

- Applications requesting a significant change in existing monitoring permit terms or conditions;

- Applications requesting a relaxation of reporting or recordkeeping requirements; and

- Cases in which, in the judgment of the Illinois EPA, action on an application for modification would require decisions to be made on technically complex issues.

An application for a significant permit modification shall include the following:

- A detailed description of the proposed change(s), including all physical changes to equipment, changes in the method of operation, changes in emissions of each pollutant, and any new applicable requirements which will apply as a result of the proposed change. Note that the Permittee need only submit revised forms for equipment and operations that will be modified.

The Illinois EPA requires the information on the following appropriate forms to be submitted in accordance with the proper classification:

- Form 273-CAAPP, REQUEST FOR ADMINISTRATIVE PERMIT AMENDMENT FOR CAAPP PERMIT; or

- Form 271-CAAPP, MINOR PERMIT MODIFICATION FOR CAAPP PERMIT; or

- Form 200-CAAPP, APPLICATION FOR CAAPP PERMIT (for significant modification).

Application forms can be obtained from the Illinois EPA website at http://www.epa.state.il.us/air/forms.

Note that the request to revise the permit must be certified for truth, accuracy, and completeness by a responsible official.

Note that failure to submit the required information may require the Illinois EPA to deny the application. The Illinois EPA reserves the right to require that additional information be submitted as needed to evaluate or take final action on applications pursuant to Section 39.5(5)(g) of the Act and 35 IAC 270.305.

Illinois Environmental Protection Agency
Division Of Air Pollution Control -- Permit Section
P.O. Box 19506
Springfield, Illinois 62794-9506

Application For Construction Permit (For CAAPP Sources Only)	For Illinois EPA use only
	ID number:
	Permit number:
	Date received:

This form is to be used by CAAPP sources to supply information necessary to obtain a construction permit. Please attach other necessary information and completed CAAPP forms regarding this construction/modification project.

Source Information

1. Source name:		
2. Source street address:		
3. City:		4. Zip code:
5. Is the source located within city limits?		☐ Yes ☐ No
6. Township name:	7. County:	8. ID number:

Owner Information

9. Name:		
10. Address:		
11. City:	12. State:	13. Zip code:

Operator Information (if different from owner)

14. Name		
15. Address:		
16. City:	17. State:	18. Zip code:

Applicant Information

19. Who is the applicant? ☐ Owner ☐ Operator	20. All correspondence to: (check one) ☐ Owner ☐ Operator ☐ Source
21. Attention name and/or title for written correspondence:	
22. Technical contact person for application:	23. Contact person's telephone number:

This Agency is authorized to require and you must disclose this information under 415 ILCS 5/39. Failure to do so could result in the application being denied and penalties under 415 ILCS 5 et seq. It is not necessary to use this form in providing this information. This form has been approved by the forms management center.

Summary Of Application Contents		
24.	Does the application address whether the proposed project would constitute a new major source or major modification under each of the following programs: a) Non-attainment New Source Review – 35 IAC Part 203; b) Prevention of Significant Deterioration (PSD) – 40 CFR 52.21; c) Hazardous Air Pollutants: Regulations Governing Constructed or Reconstructed Major Sources – 40 CFR Part 63?	☐ Yes ☐ No
25.	Does the application identify and address all applicable emissions standards, including those found in the following: a) Board Emission Standards – 35 IAC Chapter I, Subtitle B; b) Federal New Source Performance Standards – 40 CFR Part 60; c) Federal Standards for Hazardous Air Pollutants – 40 CFR Parts 61 and 63?	☐ Yes ☐ No
26.	Does the application include a process flow diagram(s) showing all emission units and control equipment, and their relationship, for which a permit is being sought?	☐ Yes ☐ No
27.	Does the application include a complete process description for the emission units and control equipment for which a permit is being sought?	☐ Yes ☐ No
28.	Does the application include the information as contained in completed CAAPP forms for all appropriate emission units and air pollution control equipment, listing all applicable requirements and proposed exemptions from otherwise applicable requirements, and identifying and describing any outstanding legal actions by either the USEPA or the Illinois EPA? Note: The use of "APC" application forms is not appropriate for applications for CAAPP sources. CAAPP forms should be used to supply information.	☐ Yes ☐ No
29.	If the application contains TRADE SECRET information, has such information been properly marked and claimed, and have two separate copies of the application suitable for public inspection and notice been submitted, in accordance with applicable rules and regulations?	☐ Yes ☐ No ☐ Not Applicable, No TRADE SECRET information in this application

Note 1: Answering “No” to any of the above may result in the application being deemed incomplete.

Signature Block	
This certification must be signed by a responsible official. Applications without a signed certification will be returned as incomplete.	
30.	I certify under penalty of law that, based on information and belief formed after reasonable inquiry, the statements and information contained in this application are true, accurate and complete. Authorized Signature: BY: _____ AUTHORIZED SIGNATURE _____ TITLE OF SIGNATORY _____ TYPED OR PRINTED NAME OF SIGNATORY _____ / _____ / _____ DATE

Note 2: An operating permit for the construction/modification permitted in a construction permit must be obtained by applying for the appropriate revision to the source’s CAAPP permit, if necessary.

10.6 Attachment 6 Guidance on Renewing This Permit

Timeliness - Pursuant to Section 39.5(5)(n) of the Act and 35 IAC 270.301(d), a source must submit to the Illinois EPA a complete CAAPP application for the renewal of a CAAPP permit not later than 9 months before the date of permit expiration of the existing CAAPP permit in order for the submittal to be deemed timely. Note that the Illinois EPA typically sends out renewal notices approximately 18 months prior to the expiration of the CAAPP permit.

The CAAPP application must provide all of the following information in order for the renewal CAAPP application to be deemed complete by the Illinois EPA:

1. A completed renewal application form 200-CAAPP, APPLICATION FOR CAAPP PERMIT.

2. A completed compliance plan form 293-CAAPP, COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE FOR CAAPP PERMIT.

3. A completed compliance certification form 296-CAAPP, COMPLIANCE CERTIFICATION, signed by the responsible official.

4. Any applicable requirements that became effective during the term of the permit and that were not included in the permit as a reopening or permit revision.

5. If this is the first time this permit is being renewed and this source has not yet addressed CAM, the application should contain the information on form 464-CAAPP, COMPLIANCE ASSURANCE MONITORING (CAM) PLAN.

6. Information addressing any outstanding transfer agreement pursuant to the ERMS.

7. a. If operations of an emission unit or group of emission units remain unchanged and are accurately depicted in previous submittals, the application may contain a letter signed by a responsible official that requests incorporation by reference of existing information previously submitted and on file with the Illinois EPA. This letter must also include a statement that information incorporated by reference is also being certified for truth and accuracy by the responsible official's signing of the form 200-CAAPP, APPLICATION FOR CAAPP PERMIT and the form 296-CAAPP, COMPLIANCE CERTIFICATION. The boxes should be marked

yes on form 200-CAAPP, APPLICATION FOR CAAPP PERMIT, as existing information is being incorporated by reference.

b. If portions of current operations are not as described in previous submittals, then in addition to the information above for operations that remain unchanged, the application must contain the necessary information on all changes, e.g., discussion of changes, new or revised CAAPP forms, and a revised fee form 292-CAAPP, FEE DETERMINATION FOR CAAPP PERMIT, if necessary.

8. Information about all off-permit changes that were not prohibited or addressed by the permit to occur without a permit revision and the information must be sufficient to identify all applicable requirements, including monitoring, recordkeeping, and reporting requirements, for such changes.

9. Information about all changes made under 40 CFR 70.4(b)(12)(i) and (ii) that require a 7-day notification prior to the change without requiring a permit revision.

The Illinois EPA will review all applications for completeness and timeliness. If the renewal application is deemed both timely and complete, the source shall continue to operate in accordance with the terms and conditions of its CAAPP permit until final action is taken on the renewal application.

Notwithstanding the completeness determination, the Illinois EPA may request additional information necessary to evaluate or take final action on the CAAPP renewal application. If such additional information affects your allowable emission limits, a revised form 292-CAAPP, FEE DETERMINATION FOR CAAPP PERMIT must be submitted with the requested information. The failure to submit to the Illinois EPA the requested information within the time frame specified by the Illinois EPA, may force the Illinois EPA to deny your CAAPP renewal application pursuant to Section 39.5 of the Act.

Application forms may be obtained from the Illinois EPA website at http://www.epa.state.il.us/air/forms.html.

If you have any questions regarding this matter, please contact a permit analyst at 217/782-2113.

Mail renewal applications to:

Illinois Environmental Protection Agency
Division of Air Pollution Control
Permit Section (MC 11)
P.O. Box 19506
Springfield, Illinois 62794-9506

MVH:psj